

NEPHROS INC
Form S-1/A
December 22, 2010

As filed with the Securities and Exchange Commission on December 22, 2010

Registration No. 333-169728

**SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D. C. 20549**

**AMENDMENT NO. 2
TO
FORM S-1
REGISTRATION STATEMENT
UNDER THE SECURITIES ACT OF 1933**

NEPHROS, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware
*(State or Other Jurisdiction of
Incorporation or Organization)*

3841
*(Primary Standard Industrial
Classification Code Number)*

13-3971809
*(I. R. S. Employer
Identification No.)*

**41 Grand Avenue
River Edge, New Jersey 07661
(201) 343-5202**

*(Address, Including Zip Code, and Telephone Number,
Including Area Code, of Registrant's Principal Executive Offices)*

Paul A. Mieyal
Acting Chief Executive Officer
Nephros, Inc.
41 Grand Avenue
River Edge, New Jersey 07661
(201) 343-5202

*(Name, Address, Including Zip Code, and Telephone Number,
Including Area Code, of Agent for Service)*

Copies to:

Alexander M. Donaldson, Esq.
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Approximate date of commencement of proposed sale to the public: As promptly as practicable after this registration statement becomes effective and the satisfaction or waiver of certain other conditions described herein.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act, check the following box. x

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

Alexander M. Donaldson, Esq. Wyrick Robbins Yates & Ponton LLP 4101 Lake Boone Trail, Suite 300 Raleigh, North Carolina

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offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if smaller reporting company)

Smaller reporting company

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Title of each class of securities to be registered ⁽¹⁾⁽²⁾	Amount to be registered	Proposed maximum aggregate offering price per unit	Proposed maximum aggregate offering price	Amount of registration fee
Non-transferable subscription rights to purchase Units ⁽³⁾				
Units underlying the subscription rights, each consisting of 4.185496618 shares of common stock, \$0.001 par value per share, and a warrant to purchase 0.924532845 shares of our common stock	175,000,000			
Common stock, \$0.001 par value per share ⁽⁴⁾	175,000,000	\$ 0.02	\$ 3,500,000	\$ 249.55
Warrants to purchase 161,793,248 shares of our common stock ⁽⁵⁾	175,000,000			
Common stock, \$0.001 par value per share, issuable upon exercise of the warrants ⁽⁶⁾	161,793,248	\$ 0.02	\$ 3,235,865	\$ 230.72
Total ⁽⁷⁾			\$ 6,735,865	\$ 480.27

Pursuant to Rule 416 under the Securities Act, the shares being registered hereunder include such indeterminate (1) number of shares of common stock as may be issuable with respect to securities being registered hereunder as a result of stock splits, stock dividends, recapitalizations or similar transactions.

This registration statement relates to (a) the subscription rights to purchase common stock, \$0.001 par value per share, and warrants, (b) shares of common stock issuable upon the exercise of the subscription rights, (c) the (2) warrants issuable upon exercise of the subscription rights, and (d) shares of our common stock that are issuable upon exercise of the warrants.

The non-transferable subscription rights are being issued without consideration. Pursuant to Rule 457(g), no (3) separate registration fee is payable with respect to the rights being offered hereby since the rights are being registered on the same registration statement as the securities offered pursuant thereto.

(4) Calculated pursuant to Rule 457(o) based on an estimate of the proposed maximum offering price of our common stock of \$0.02.

Pursuant to Rule 457(g), no separate registration fee is payable with respect to the warrants being offered hereby (5) since the warrants are being registered on the same registration statement as the securities to be offered pursuant thereto.

(6) Calculated pursuant to Rule 457(o) based on an estimate of the proposed maximum exercise price of \$0.02.

The registration fee is being offset, pursuant to Rule 457(p) of the Securities Act, by the \$959 of registration fees (7) paid in connection with the registrant's filing of Registration Statement No. 333-167022 (initially filed on May 21, 2010, as amended on June 18, 2010, and withdrawn on October 1, 2010).

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration

statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities or the solicitation of an offer to buy these securities in any state in which such offer, solicitation or sale is not permitted.

PRELIMINARY PROSPECTUS

SUBJECT TO COMPLETION DATED DECEMBER 22, 2010

NEPHROS, INC.

Up to 175,000,000 Shares of Common Stock and Warrants to Purchase up to 161,793,248 Shares of Common Stock Issuable upon Exercise of Non-transferrable Rights to Subscribe for such Shares and Warrants

We are distributing, at no charge, to holders of our common stock, non-transferable subscription rights to purchase up to 175,000,000 Units. We refer to this offering as the rights offering. In this rights offering, you will receive one non-transferrable subscription right for each share of common stock owned by you at 5:00 p.m., Eastern Time, on [], which we refer to as the record date. Each non-transferable subscription right will entitle you to purchase 4.185496618 Units at a subscription price of \$0.02 per Unit, which we refer to as the basic subscription privilege. Each Unit consists of one share of our common stock and a warrant to purchase 0.924532845 shares of our common stock at the exercise price of \$0.02 per share for a period of five years following [].

There is no minimum number of Units you must purchase, but you may not purchase fractional Units. To determine the number of Units you may purchase under your basic subscription privilege, multiply the number of shares of our common stock you own by 4.185496618 and round down to the nearest whole number. For example, if you own 100 shares of our common stock, you will be entitled to subscribe for up to 418 Units ($100 \text{ shares} \times 4.185496618 = 418.5496618$, rounded down to 418, the nearest whole number) under your basic subscription privilege. Similarly, the warrant to purchase 0.924532845 shares of our common stock included with each Unit you purchase will only be exercisable for a number of shares rounded down to the nearest whole number. For example, if you purchase 418 Units, the warrants included with those Units would be exercisable for up to 386 shares ($418 \text{ Units} \times 0.924532845 = 386.4547292$, rounded down to 386, the nearest whole number).

If you exercise your basic subscription privilege in full, you may also exercise an over-subscription privilege to subscribe for additional Units not subscribed for by other rights holders in the offering at the same subscription price of \$0.02 per Unit, subject to certain limitations. If an insufficient number of Units is available to fully satisfy all over-subscription privilege requests, the available Units will be allocated proportionately among rights holders who exercise their over-subscription privileges based on the number of Units each such holder subscribed for under the basic subscription privilege. To the extent you properly exercise your over-subscription privilege for an amount of Units that exceeds the number of unsubscribed Units available to you, any excess subscription payment received by the subscription agent will be promptly returned to you, without interest or deduction.

There is no certainty that any Units will be purchased pursuant to the rights offering, and there is no minimum purchase requirement as a condition to our accepting subscriptions. We are not entering into any standby purchase agreement or similar agreement with respect to the purchase of Units not subscribed for through the exercise of subscription privileges by our stockholders, except that our largest stockholder, Lambda Investors LLC, has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which

amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. See The Rights Offering Background of the Rights Offering Purchase Agreement with Lambda Investors. Lambda Investors is not receiving any compensation for its purchase commitment.

Any Units purchased by Lambda Investors

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and the shares and warrants to purchase shares of our common stock underlying them are not being registered pursuant to the registration statement of which this prospectus is a part, and thus may not be offered or sold except pursuant to an effective registration statement under, or an exemption from the registration requirements of, the Securities Act of 1933, as amended. See Plan of Distribution.

The subscription rights will expire if they are not exercised by 5:00 p.m., Eastern Time, on [], unless we extend the subscription period in our sole discretion. However, our board of directors reserves the right to cancel the rights offering at any time, for any reason. If the rights offering is cancelled, all subscription payments received by the subscription agent will be returned promptly.

Shares of our common stock are quoted on the OTC Bulletin Board under the ticker symbol NEPH. On December 17, 2010, the closing sales price for our common stock was \$0.11 per share. The shares of common stock issued in the rights offering will also be quoted on the OTC Bulletin Board under the same ticker symbol. Neither the warrants nor the subscription rights will be listed for trading on any stock exchange or market or quoted on the OTC Bulletin Board.

This is not an underwritten offering. The Units are being offered directly by us without the services of an underwriter or selling agent.

The purchase of Units involves substantial risks. See Risk Factors beginning on page 19 of this prospectus to read about important factors you should consider before subscribing for Units.

Neither the SEC nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is [].

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OLpur™ and H₂H™ are among our trademarks for which U.S. registrations are pending. H₂H is a registered European Union trademark. We have assumed that the reader understands that these terms are source-indicating.

Accordingly, such terms appear throughout the remainder of this prospectus without trademark notices for convenience only and should not be construed as being used in a descriptive or generic sense.

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission, which we refer to as the SEC or the Commission, utilizing a registration process. It is important for you to read and consider all of the information contained in this prospectus and any applicable prospectus before making a decision whether to invest in the common stock. You should also read and consider the information contained in the exhibits filed with our registration statement, of which this prospectus is a part, as described in "Where You Can Find More Information" in this prospectus.

You should rely only on the information contained in this prospectus and any applicable prospectus supplement, including the information incorporated by reference. We have not authorized anyone to provide you with different information. We are not offering to sell or soliciting offers to buy, and will not sell, any securities in any jurisdiction where it is unlawful. You should assume that the information contained in this prospectus or any prospectus supplement, as well as information contained in a document that we have previously filed or in the future will file with the SEC is accurate only as of the date of this prospectus, the applicable prospectus supplement or the document containing that information, as the case may be.

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PROSPECTUS SUMMARY

This summary highlights information contained in other parts of this prospectus. Because it is a summary, it does not contain all of the information that is important to you. You should carefully read the more detailed information contained in this prospectus, including the section entitled Risk Factors beginning on page 19 and our financial statements for the years ended December 31, 2008 and 2009, and the nine months ended September 30, 2010, and related notes appearing elsewhere in this prospectus. We refer to Nephros, Inc. and its consolidated subsidiary as Nephros, the Company, we, our, and us.

About the Company

We are a medical device company developing and marketing filtration products for therapeutic applications, infection control, and water purification.

Our hemodiafiltration, or HDF, system is designed to improve the quality of life for the End-Stage Renal Disease, or ESRD, patient while addressing the critical financial and clinical needs of the care provider. ESRD is a disease state characterized by the irreversible loss of kidney function. The Nephros HDF system removes a range of harmful substances more effectively, and with greater capacity, than existing ESRD treatment methods, particularly with respect to substances known collectively as middle molecules. These molecules have been found to contribute to such conditions as dialysis-related amyloidosis, carpal tunnel syndrome, degenerative bone disease and, ultimately, mortality in the ESRD patient. Nephros ESRD products are sold and distributed throughout Europe and are currently being used in over 50 clinics in Europe.

We currently have three HDF products in various stages of development to deliver improved therapy to ESRD patients:

OLpur MDHDF filter series (which we sell in various countries in Europe and currently consists of our MD190 and MD220 diafilters), which is, to our knowledge, the only filter designed expressly for HDF therapy and employing our proprietary Mid-Dilution Diafiltration technology;

OLpur H₂H, our add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy; and

OLpur NS2000 system, our stand-alone HDF machine and associated filter technology.

We have also developed our OLpur HD 190 high-flux dialyzer cartridge, which incorporates the same materials as our OLpur MD series, but does not employ our proprietary Mid-Dilution Diafiltration technology. Our OLpur HD190 was designed for use with either hemodialysis or hemodiafiltration machines, and received its approval in June 2005 from the U.S. Food and Drug Administration, or FDA, under Section 510(k) of the Food, Drug and Cosmetic Act, or the FDC Act.

We believe that products in our OLpur MDHDF filter series are more effective than any products currently available for ESRD therapy because they are better at removing certain larger toxins (known in the industry as middle molecules because of their heavier molecular weight) from blood. The accumulation of middle molecules in the blood has been related to such conditions as malnutrition, impaired cardiac function, carpal tunnel syndrome, and degenerative bone disease in the ESRD patient. We also believe that OLpur H₂H will, upon introduction, expand the use of HDF as a cost-effective and attractive alternative for ESRD therapy, and that, if approved, our OLpur H₂H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our OLpur MDHDF filter system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

We believe that our products will reduce hospitalization, medication and care costs as well as improve patient health (including reduced drug requirements and improved blood pressure profiles), and therefore, quality of life, by removing a broad range of toxins through a more patient-friendly, better-tolerated process.

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In addition, independent studies in Europe have indicated that, when compared with dialysis as it is currently offered in the United States, HDF can reduce the patient's mortality risk by up to 35%. We believe that the OLpur MDHDF filter series and the OLpur H₂H will provide these benefits to ESRD patients at competitive costs and without the need for ESRD treatment providers to make significant capital expenditures in order to use our products. We also believe that the OLpur NS2000 system, if successfully developed, will be the most cost-effective stand-alone hemodiafiltration system available.

In January 2006, we introduced our new Dual Stage Ultrafilter, or DSU, water filtration system. Our DSU represents a new and complementary product line to our existing ESRD therapy business. The DSU incorporates our unique and proprietary dual stage filter architecture and is, to our knowledge, the only water filter that allows the user to sight-verify that the filter is properly performing its cleansing function. Our research and development work on the OLpur H₂H and MD Mid-Dilution filter technologies for ESRD therapy provided the foundation for a proprietary multi-stage water filter that we believe is cost effective, reliable, and long-lasting. We believe our DSU can offer a robust solution to a broad range of contaminated water and disease prevention issues. Hospitals are particularly stringent in their water quality requirements; transplant patients and other individuals whose immune systems are compromised can face a substantial infection risk in drinking or bathing with standard tap water that would generally not present a danger to individuals with normal immune function. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. With over 5,000 registered hospitals in the United States alone (as reported by the American Hospital Association in Fast Facts of October 20, 2006), we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. On July 1, 2009, the FDA approved the DSU to be used to filter biological contaminants from water and dialysate concentrate used in hemodialysis procedures.

In March 2007, we received full approval on our IDE application from the FDA to begin human clinical trials of our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. We obtained approval from the IRBs and completed the clinical trial near the end of the second quarter in 2008. The clinical data was compiled, analyzed, summarized and submitted with our FDA 510(k) in November 2008. Following its review of the application, the FDA has requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we worked on the development of a personal potable water purification system for use by warfighters. Work on this project was completed in August 2009 and we have billed approximately \$900,000 during the twenty months ended August 2009. In August 2009, we were awarded a new \$1.8 million research contract from the Office of Naval Research (ONR) for development of a potable dual-stage military water purifying filter. The research contract is an expansion of our former ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of our ultrafilter is the removal

of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use

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purposes. Approximately \$1,178,000 of revenue has been recognized on this new project since September 2009 of which approximately \$755,000 was recognized on this new project during the nine months ended September 30, 2010.

Immediate Need for Capital and Recent Loan from Lambda Investors LLC

At September 30, 2010, we had cash and cash equivalents totaling approximately \$421,000 and tangible assets of approximately \$1,682,000. At that time, we estimated that these funds would allow us to keep operating into the fourth quarter of 2010. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. The receipt of this letter had a detrimental impact on our ongoing capital raising efforts. As a result, we determined, in consultation with the investment banking firm we had engaged, Dawson James Securities, Inc. (Dawson James), that raising capital through conventional sources was no longer feasible. We subsequently terminated our engagement of Dawson James on September 16, 2010.

After having considered all possible financing alternatives, on October 1, 2010, with the unanimous approval of our independent directors who are unaffiliated with Lambda Investors LLC (Lambda Investors), we issued a six-month senior secured note to Lambda Investors in the principal amount of \$500,000. We expect that the proceeds from the note will allow us to fund our operations into February 2011. The terms of the Lambda Investors note are discussed in more detail under the heading The Rights Offering Background of the Rights Offering Loan from Lambda Investors.

As required under the terms of the note, we are conducting this rights offering to raise up to \$3,500,000 from our existing stockholders. If we complete the rights offering, we must repay the principal and accrued interest on the note as well as fees and expenses associated with the note with the proceeds from the rights offering.

To effect the rights offering, we must amend our certificate of incorporation to increase the number of authorized shares of common stock. Our annual meeting of stockholders will be held on January 10, 2011, at which we will ask our stockholders to approve, among other proposals, the increase in our authorized shares of common stock at that meeting. The increase in our authorized shares of common stock is a condition to the closing of the rights offering. Other conditions to the closing of the rights offering are discussed under the heading The Rights Offering Conditions to the Rights Offering.

Lambda Investors is our largest stockholder and as of the record date beneficially owned approximately 43.9% of our outstanding common stock, including warrants to purchase an aggregate of 7,190,811 shares of our common stock.

Proposed Reverse Stock Split

If the rights offering is completed, we intend to effect, subject to approval by our stockholders, a 1-for-20 reverse stock split immediately after the completion of the rights offering. We will ask our stockholders to approve a proposal to effect the reverse stock split at our upcoming annual meeting of stockholders. In the 1-for-20 reverse stock split, our board of directors intends to cash out fractional shares at a price equal to the average closing sale price of shares of common stock for the ten trading days immediately prior to the date the 1-for-20 reverse stock split becomes effective, or, if no such sale takes place on such days, the average of the closing bid and ask prices for such days, in each case as officially reported by the OTC Bulletin Board, which we refer to as the cash out price. If the shares currently held by you and the shares purchased by you in this offering result in a fractional interest following the 1-for-20 reverse stock

split, then such fractional interests will be cashed out at the cash out price, which may be less than or greater than the \$0.02 per Unit subscription price.

Corporate Information

We are incorporated in Delaware and our principal executive offices are located at 41 Grand Avenue, River Edge, New Jersey 07661. Our telephone number is (201) 343-5202 and our website address is www.nephros.com.

Information contained in, or accessible through, our website does not constitute part of this prospectus.

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Where You Can Find More Information

We make available on our website, *www.nephros.com*, our annual reports, quarterly reports, proxy statements and other filings made with the SEC. The registration statement on Form S-1, of which this prospectus is a part, and its exhibits, as well as our other reports filed with the SEC, can be inspected and copied at the SEC's public reference room at 100 F Street, N.E., Washington, D.C. 20549. The public may obtain information about the operation of the public reference room by calling the SEC at 1-800-SEC-0330. In addition, the SEC maintains a web site at *www.sec.gov* which contains our registration statement on Form S-1 and any amendments thereto and other reports, proxy and information statements and information regarding us that we file electronically with the SEC.

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The Rights Offering

*The following summary describes the principal terms of the rights offering, but is not intended to be complete. See the information under the heading *The Rights Offering* in this prospectus for a more detailed description of the terms and conditions of the rights offering.*

Securities Offered

We are distributing to holders of our common stock, at no charge, one non-transferable subscription right for each share of our common stock owned as of 5:00 p.m., Eastern Time, on the record date, either as a holder of record or, in the case of shares held of record by brokers, dealers, custodian banks or other nominees on a stockholder's behalf, as a beneficial owner of such shares. Each subscription right entitles you to purchase 4.185496618 Units, each consisting of one share of our common stock and a warrant to purchase 0.92453 shares of our common stock at an exercise price of \$0.02 per share for a period of five years following [].

Basic Subscription Privilege

For each share that you own, you will have a basic subscription privilege to buy from us 4.185496618 Units at a subscription price of \$0.02 per Unit. You may exercise your basic subscription privilege for some or all of your rights, or you may choose not to exercise your rights. If you choose to exercise your rights, there is no minimum number of Units you must purchase, but you may not purchase fractional Units. To determine the number of Units you may purchase under your basic subscription privilege, multiply the number of shares of our common stock you own by 4.185496618 and round down to the nearest whole number. For example, if you own 100 shares of our common stock, you will be entitled to subscribe for up to 418 Units ($100 \text{ shares} \times 4.185496618 = 418.5496618$, rounded down to 418, the nearest whole number) under your basic subscription privilege. Similarly, the warrant to purchase 0.92453 shares of our common stock included with each Unit you purchase will only be exercisable for a number of shares rounded down to the nearest whole number. For example, if you purchase 418 Units, the warrants included with those Units would be exercisable for up to 386 shares ($418 \text{ Units} \times 0.924532845 = 386.4547292$, rounded down to 386, the nearest whole number).

Over-Subscription Privilege

If you exercise your basic subscription privilege in full, you may also exercise an over-subscription privilege to subscribe for additional Units not subscribed for by other rights holders in the offering at the same subscription price of \$0.02 per Unit. If an insufficient number of Units is available to fully satisfy all over-subscription privilege requests, the available Units will be allocated proportionately among rights holders who exercise their over-subscription privileges based on the number of Units each such holder subscribed for under the basic subscription privilege. The subscription agent will return

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any excess payments by mail without interest or deduction promptly after expiration of the subscription period.

Subscription Price

\$0.02 per Unit, payable in cash. To be effective, any payment related to the exercise of a right must clear prior to the expiration of the subscription period.

Record Date

5:00 p.m., Eastern Time, on [].

Expiration Date

5:00 p.m., Eastern Time, on [], subject to extension or earlier termination at our sole discretion. We may extend the expiration date by giving oral or written notice to our subscription agent on or before the expiration date, followed by a press release no later than 9:00 a.m, Eastern Time, on the next business day after the previously scheduled expiration date.

Non-Transferability of Rights

The subscription rights are not transferrable, other than by operation of law, and will not be quoted or listed for trading, as applicable, on the OTC Bulletin Board or on any stock exchange or trading markets.

No Board Recommendation

Our board of directors is making no recommendation regarding your exercise of the subscription rights. You are urged to make your decision based on your own assessment of our business and the rights offering. Please see Risk Factors for a discussion of the risks involved in investing in our common stock.

Purchase Commitment of Lambda Investors

Our largest stockholder, Lambda Investors LLC, has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. See The Rights Offering Background of the Rights Offering Purchase Agreement with Lambda Investors. Lambda Investors is not receiving any compensation for its purchase commitment. Any Units purchased by Lambda Investors and the shares and warrants to purchase shares of our common stock underlying them are not being registered pursuant to the registration statement of which this prospectus is a part, and thus may not be

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offered or sold except pursuant to an effective registration statement under, or an exemption from the registration requirements of, the Securities Act of 1933, as amended. See Plan of Distribution.

No Revocation

Once you submit the form of rights certificate to exercise any subscription rights, you may not revoke or change your exercise or request a refund of monies paid. All exercises of rights are irrevocable, even if you later learn information about us that you consider to be unfavorable. You should not exercise your subscription rights unless you are certain that you wish to purchase Units offered pursuant to this rights offering.

Extension, Cancellation and Amendment

We may extend the expiration date at any time after the record date. If the rights offering is extended, subscriptions received prior to such extension will remain irrevocable. We may choose to extend the rights offering for any reason. For example, we may decide that changes in the market price of our common stock warrant an extension, or we may decide that the degree of stockholder participation in the rights offering is less than the level we desire. We may cancel the rights offering at any time prior to the expiration of the rights offering for any reason. In the event the rights offering is cancelled, all subscription payments received by the subscription agent will be returned, without interest or deduction, as soon as practicable. We also reserve the right to amend or modify the terms of the rights offering, as appropriate.

Procedures for Exercising Rights

You may exercise your subscription rights by properly completing and executing your rights certificate and delivering it, together with the subscription price for each Unit for which you subscribe, to the subscription agent on or prior to the expiration date. If you use the mail, we recommend that you use insured, registered mail, return receipt requested. If you cannot deliver your rights certificate to the subscription agent on time, you may follow the guaranteed delivery procedures described under The Rights Offering Guaranteed Delivery Procedures.

Payment Adjustments

If you send a payment that is insufficient to purchase the number of Units requested, or if the number of Units requested is not specified in the rights certificate, the payment received will be applied to exercise your subscription rights to the extent of the payment. If the payment exceeds the amount necessary for the full exercise of your subscription rights, including any over-subscription privilege exercised and permitted, the excess will be returned to you promptly in cash. You will not receive interest or a deduction on any payments refunded to you under the rights offering.

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How Rights Holders Can Exercise Rights Through Others

If you hold our common stock through a broker, custodian bank or other nominee, we will ask your broker, custodian bank or other nominee to notify you of the rights offering. If you wish to exercise your rights, you will need to have your broker, custodian bank or other nominee act for you. To indicate your decision, you should complete and return to your broker, custodian bank or other nominee the form entitled Beneficial Owner Election Form. You should receive this form from your broker, custodian bank or other nominee with the other rights offering materials. You should contact your broker, custodian bank or other nominee if you believe you are entitled to participate in the rights offering but you have not received this form.

How Foreign Stockholders and Other Stockholders Can Exercise Rights

The subscription agent will not mail rights certificates to you if you are stockholder whose address is outside the United States or if you have an Army Post Office or a Fleet Post Office address. Instead, we will have the subscription agent hold the subscription rights certificates for your account. To exercise your subscription rights, you must notify the subscription agent prior to 11:00 a.m., Eastern Time, at least three business days prior to the expiration date, and establish to the satisfaction of the subscription agent that it is permitted to exercise your subscription rights under applicable law. If you do not follow these procedures in time, your rights will expire and will have no value.

Possible Restrictions on Exercise by Stockholders Residing in Certain States

We will not issue Units to any stockholder who is required to obtain prior clearance or approval from, or submit a notice to, any state or federal regulatory authority to acquire, own or control such Units if we determine that, as of the expiration date of the rights offering, such clearance or approval has not been satisfactorily obtained and any applicable waiting period has not expired.

Material U.S. Federal Income Tax Considerations

A holder will not recognize income or loss for U.S. federal income tax purposes in connection with the receipt or exercise of subscription rights in the rights offering. For a detailed discussion, see The Rights Offering Material U.S. Federal Income Tax Consequences. You should consult your tax advisor as to the particular consequences to you of the rights offering.

Conditions to the Rights Offering

The completion of the rights offering is subject to the following conditions:

the approval of our stockholders of an increase in our authorized shares of capital stock and common stock;

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the term of Lambda Investors' existing warrants that will remain outstanding following the completion of the rights offering must be extended so that such warrants will expire at the same time as the warrants issued in the rights offering;

we must be in compliance with all terms of the promissory note and security agreements evidencing the loan to us from Lambda Investors;

the registration statement of which this prospectus is a part must be declared effective by the SEC; and

we must execute a registration rights agreement with Lambda Investors.

In addition, Lambda Investors' commitment to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, is subject to certain conditions, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering.

See The Rights Offering Conditions to the Rights Offering and Background of the Rights Offering Purchase Agreement with Lambda Investors.

Use of Proceeds

Assuming all the Units offered are sold, the gross proceeds from the rights offering and under the purchase agreement with Lambda Investors will be approximately \$3,500,000. Our estimated net proceeds from the rights offering would be \$3,300,000, after deducting our estimated offering expenses of \$200,000. We are obligated to use proceeds from the rights offering to repay the \$500,000 loan from Lambda Investors, plus all accrued interest thereon, as well as an 8% sourcing/transaction fee (\$40,000) in respect of the loan and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the loan and the rights offering. For a more detailed description of the loan, please see The Rights Offering Background of the Rights Offering Loan from Lambda Investors. We intend to use the remaining net proceeds, if any, for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of any remaining net proceeds for these purposes, we intend to invest them generally in short-term, investment-grade, interest-bearing securities. See Use of Proceeds.

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Issuance of Common Stock

If you purchase Units through the rights offering, we will issue the underlying shares and warrants to you as soon as practicable after the completion of the rights offering.

Shares Outstanding Before the Rights Offering

41,811,048 shares of our common stock were outstanding as of the record date.

Shares Outstanding After Completion of the Rights Offering and the Private Placement of Units with Lambda Investors

As of the record date, we had 41,811,048 shares of our common stock issued and outstanding. If all of the Units offered are sold, we will issue 175,000,000 shares of our common stock in the rights offering and under the purchase agreement with Lambda Investors. Assuming all of the Units offered are sold and no additional shares of our common stock are issued and no outstanding options or warrants are exercised prior to the completion of the rights offering and the private placement of Units with Lambda Investors, approximately 216,811,000 shares of our common stock will be outstanding immediately after the completion of the rights offering and the private placement of Units with Lambda Investors, which will equal approximately 10,840,000 shares after giving effect to our proposed 1-for-20 reverse stock split.

Subscription Agent

Continental Stock Transfer & Trust Company.

Information Agent

Morrow & Co. LLC.

Fees and Expenses

We will pay the fees and all of our expenses related to the rights offering. We will also pay Lambda Investors an aggregate of \$100,000 for reimbursement of legal fees incurred in connection with the loan and the rights offering. See Use of Proceeds.

Trading Symbol

Shares of our common stock are currently listed for quotation on the OTC Bulletin Board under the ticker symbol NEPH and the shares to be issued in connection with the rights offering will also be listed on the OTC Bulletin Board under the same symbol. Neither the warrants nor the subscription rights will be listed or traded on any market.

Risk Factors

Participation in the rights offering and the purchase of Units involve substantial risks. See Risk Factors beginning on page 19 of this prospectus.

Additional Information

For additional information, please see the description of this offering contained in this prospectus under the heading The Rights Offering or contact Morrow & Co. LLC at (800) 414-4313.

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QUESTIONS AND ANSWERS RELATING TO THE RIGHTS OFFERING

What is the rights offering?

We are distributing, at no charge, to holders of our common stock non-transferable subscription rights to purchase Units. You will receive one subscription right for each share of common stock you owned as of 5:00 p.m., Eastern Time, on [], the record date. The subscription rights will be evidenced by rights certificates. Each subscription right will entitle the holder to a basic subscription privilege and an over-subscription privilege.

What is the basic subscription privilege?

For each share that you own, you will have a basic subscription privilege to buy from us 4.185496618 Units at a subscription price of \$0.02 per Unit. You may exercise your basic subscription privilege for some or all of your rights, or you may choose not to exercise your rights.

If you choose to exercise your rights, there is no minimum number of Units you must purchase, but you may not purchase fractional Units. To determine the number of Units you may purchase under your basic subscription privilege, multiply the number of shares of our common stock you own by 4.185496618 and round down to the nearest whole number. For example, if you own 100 shares of our common stock, you will be entitled to subscribe for up to 418 Units ($100 \text{ shares} \times 4.185496618 = 418.5496618$, rounded down to 418, the nearest whole number) under your basic subscription privilege. Similarly, the warrant to purchase 0.92453 shares of our common stock included with each Unit you purchase will only be exercisable for a number of shares rounded down to the nearest whole number. For example, if you purchase 418 Units, the warrants included with those Units would be exercisable for up to 386 shares ($418 \text{ Units} \times 0.924532845 = 386.4547292$, rounded down to 386, the nearest whole number).

What is the over-subscription privilege?

If you exercise your basic subscription privilege in full, you may also exercise an over-subscription privilege to subscribe for additional Units not subscribed for by other rights holders in the offering at the same subscription price of \$0.02 per Unit. If an insufficient number of Units is available to fully satisfy all over-subscription privilege requests, the available Units will be allocated proportionately among rights holders who exercise their over-subscription privileges based on the number of Units each such holder subscribed for under the basic subscription privilege. The subscription agent will return any excess payments by mail without interest or deduction promptly after expiration of the subscription period.

Why are we conducting the rights offering?

We are conducting the rights offering to raise capital for our operations. Without additional capital, we will not have sufficient funds to continue our operations. With the proceeds from the note we issued to Lambda Investors, we estimate that we will be able to fund our operations into February 2011. Upon the closing of the rights offering, we must first use proceeds to repay the \$500,000 loan from Lambda Investors, plus all accrued interest thereon, as well as an 8% sourcing/transaction fee (\$40,000) and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the loan and the rights offering. We intend to use the remaining net proceeds, if any,

for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of any remaining net proceeds for these purposes, we intend to invest them generally in short-term, investment-grade, interest-bearing securities.

How was the \$0.02 per Unit subscription price determined?

As a condition to making the loan, Lambda Investors required that we undertake a rights offering to raise additional funds to meet our ongoing financial requirements and to repay the loan. In its loan proposal, Lambda Investors specified a rights offering of 175,000,000 Units consisting of shares and warrants to purchase shares of our common stock, and that it be made at a subscription price of \$0.02 per Unit to encourage our other stockholders to participate. The loan and the rights offering, as proposed by Lambda Investors, including the \$0.02 per Unit subscription price, were approved by a special committee of our independent directors (none of whom are affiliated with Lambda Investors) after consideration of the financing

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alternatives available to us. In an effort to minimize the dilutive effect of the rights offering, Lambda Investors proposed that it would surrender for cancellation warrants (after giving effect to the anti-dilution provisions contained therein that will be triggered by the rights offering) to purchase a number of shares equal to the total number of shares underlying the warrants to be issued in the rights offering. The special committee considered, among other things, that (i) we are not currently in a position to attract an outside investor or investors with a stock offering at a more favorable discount to the current trading price of our stock, and (ii) even if we were able to make such an offering, without any inducement for Lambda Investors to surrender for cancellation a portion of its existing warrants as it has agreed to do in the rights offering, the dilution suffered by current investors would have been approximately equal to or greater than the dilution that participating investors will be subject to in the rights offering. See **The Rights Offering Dilution**. The \$0.02 per Unit subscription price was not based on any discount to the market price of our common stock. The subscription price is not necessarily related to our book value, net worth or any other established criteria of value and may or may not be considered the fair value of our common stock included in the Units being offered in the rights offering. We did not consult with any financial or other advisor in determining the subscription price.

Am I required to exercise the subscription rights I receive in the rights offering?

No. You may exercise any number of your subscription rights, or you may choose not to exercise any subscription rights. However, if you choose not to fully exercise your basic subscription privilege and other stockholders fully exercise their basic subscription privilege, the percentage of our common stock owned by these other stockholders will increase relative to your ownership percentage, and your voting and other rights will likewise be significantly diluted. In addition, if you do not exercise your basic subscription privilege in full, you will not be entitled to subscribe to purchase additional Units pursuant to the over-subscription privilege and your ownership percentage in our common stock and related voting and other rights may be further diluted relative to those stockholders that do.

How soon must I act to exercise my subscription rights?

The subscription rights may be exercised at any time beginning on the date of this prospectus and prior to 5:00 p.m., Eastern Time, on the expiration date, which is []. We may extend the expiration date by giving oral or written notice to our subscription agent on or before the expiration date, followed by a press release no later than 9:00 a.m, Eastern Time, on the next business day after the previously scheduled expiration date. If you elect to exercise any rights, the subscription agent must actually receive all required documents and payments from you prior to the expiration of the subscription period. Although we have the option of extending the expiration of the subscription period, subject to the approval of Lambda Investors, we currently do not intend to do so.

May I transfer my subscription rights?

No, you may not sell, transfer or assign your subscription rights to anyone else because they are not transferable, other than by operation of law.

May I revoke or change my election to exercise my subscription rights?

Once you submit the form of rights certificate to exercise any subscription rights, you may not revoke or change your

exercise or request a refund of monies paid. All exercises of rights are irrevocable, even if you later learn information about us that you consider to be unfavorable. You should not exercise your subscription rights unless you are certain that you wish to purchase Units offered pursuant to this rights offering.

May our board of directors extend, cancel or amend the rights offering?

Yes. We may extend the expiration date at any time. If the rights offering is extended, subscriptions received prior to such extension will remain irrevocable. We may choose to extend the rights offering for any reason. For example, we may decide that changes in the market price of our common stock warrant an extension, or we may decide that the degree of stockholder participation in the rights offering is less than the level we desire. We may cancel the rights offering at any time prior to the expiration of the rights offering for any reason. In the event the rights offering is cancelled, all subscription payments received by the subscription agent will be returned, without interest or deduction, as soon as practicable. We also reserve the right to amend or modify the terms of the rights offering, as appropriate.

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Are we requiring a minimum subscription to complete the rights offering?

No. There is no minimum subscription requirement to consummate the rights offering. However, one of the conditions to Lambda Investors' obligation to exercise its basic subscription privilege is that stockholders not affiliated with Lambda Investors subscribe for at least 50% of the Units offered in the rights offering.

If the rights offering is not completed, will my subscription payment be refunded to me?

Yes. The subscription agent will hold all funds it receives in a segregated bank account until completion of the rights offering. If the rights offering is not completed, the subscription agent will return, without interest or deduction, as soon as practicable all subscription payments. If you own shares in street name, it may take longer for you to receive payment because the subscription agent will return payments through the record holder of the shares.

Has our board of directors made a recommendation to our stockholders regarding the rights offering?

No. Our board of directors is making no recommendation regarding your exercise of the subscription rights. Stockholders who exercise subscription rights risk investment loss on new money invested. We cannot assure you that the market price for our common stock will be above the subscription price of a Unit or that anyone purchasing Units at the subscription price will be able to sell the underlying shares in the future at the same price or a higher price. You are urged to make your decision based on your own assessment of our business and the rights offering. Among other things, you should carefully consider the risks described under the heading "Risk Factors" in this prospectus.

Are there any conditions to the rights offering?

Yes. To complete the rights offering, our stockholders must approve an amendment to our certificate of incorporation to increase the authorized shares of capital stock from 95,000,000 shares to 905,000,000 shares and the authorized shares of common stock from 90,000,000 to 900,000,000 shares. This amendment is necessary to ensure we have enough shares to effect the rights offering. Without the increase in the authorized shares, we will not be able to complete the rights offering. We will seek stockholder approval for such amendment at our annual meeting of stockholders to be held on January 10, 2011. Additional conditions to the rights offering include that the registration statement of which this prospectus is a part must be declared effective by the SEC and that we execute a registration rights agreement with Lambda Investors.

We must also be in compliance with all terms of the promissory note and security agreements evidencing the loan to us by Lambda Investors.

Further, the term of Lambda Investors' existing warrants that will remain outstanding following the completion of the rights offering will be amended so that such warrants expire at the same time as the warrants issued in the rights offering, which will have a five-year term. We will amend Lambda Investors' remaining warrants as part of completing the rights offering.

In addition, Lambda Investors' commitment to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, is subject to certain conditions, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering.

What happens to warrants and options that are outstanding?

As of the record date, warrants to purchase 8,191,827 shares of our common stock were outstanding. Upon completion of the rights offering, warrants to purchase 7,519,246 of those shares will become exercisable for an aggregate of 337,108,164 shares at an exercise price of \$0.02 per share as a result of the full-ratchet anti-dilution provisions contained in those warrants. Following the closing of the rights offering, and after giving effect to these anti-dilution provisions, Lambda Investors has agreed to surrender for cancellation warrants to purchase 161,793,248 shares of our common stock, which will equal the number of shares underlying warrants issued as part of the Units, assuming all Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold. If Lambda Investors purchases 60,194,226 Units under the purchase agreement, it will receive warrants to purchase 55,651,539 shares of our common

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stock. In addition, following the closing of the rights offering, Lambda Investors' existing warrants to purchase 161,793,247 shares that remain outstanding will be amended to expire at the same time as the warrants issued in the rights offering, which will have a five-year term. Assuming all Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold and after giving effect to the surrender of existing warrants by Lambda Investors, immediately after the completion of the rights offering and the private placement of Units with Lambda Investors we will have outstanding warrants to purchase an aggregate of 337,108,164 shares of our common stock at an exercise price of \$0.02 per share and warrants to purchase another 672,581 shares of our common stock that will not be affected by the rights offering.

The rights offering will have no effect on any of our outstanding options. We currently have 2,696,976 shares of common stock authorized for issuance under our 2004 Stock Incentive Plan, which we refer to as the 2004 Plan, of which 1,650,708 remain eligible for future grant. Our board of directors has approved an increase in the number of shares authorized for issuance under the 2004 Plan to 39,814,340, and we will be asking our stockholders to approve this amendment at our upcoming annual meeting of stockholders to be held on January 10, 2011. If this amendment to the 2004 Plan and a proposed 1-for-20 reverse stock split are both approved by our stockholders and implemented by our board, we will have 1,990,717 shares authorized for issuance under the 2004 Plan.

Will members of the board of directors and management be permitted to participate in the rights offering?

Yes. Members of our board and executive management team who own shares of common stock on the record date have the same basic subscription and over-subscription privileges as other stockholders. We caution you that the board of directors or members of the executive management team do not make any recommendation regarding your exercise of subscription rights.

Have any stockholders committed to purchase any Units?

Lambda Investors, our largest stockholder, has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. See *The Rights Offering Background of the Rights Offering Purchase Agreement with Lambda Investors*. Lambda Investors is not receiving any compensation for its purchase commitment. Any Units purchased by Lambda Investors and the shares and warrants to purchase shares of our common stock underlying them are not being registered pursuant to the registration statement of which this prospectus is a part, and thus may not be offered or sold except pursuant to an effective registration statement under, or an exemption from the registration requirements of, the Securities Act of 1933, as amended. See *Plan of Distribution*.

If Lambda Investors purchases 60,194,226 Units under the purchase agreement, it will acquire 60,194,226 shares of our common stock and receive warrants to purchase 55,651,539 shares of our common stock. Assuming Lambda Investors purchases no additional Units or shares of our common stock, does not exercise any of its existing warrants

and surrenders warrants to purchase 161,793,248 shares for cancellation, as contemplated if all Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold, Lambda Investors will own 74,575,847 shares, or approximately 34.4%, of our issued and outstanding shares of common stock and warrants to purchase 217,444,786 shares of our common stock following the closing of the rights offering, representing beneficial ownership of 67.2% of our common stock. Consequently, Lambda Investors would continue to be able to exercise substantial control over matters requiring stockholder approval upon completion of the rights offering. Please see Risk Factors Risks Related to the Rights Offering Lambda Investors will continue to be able to exercise substantial control over matters requiring stockholder approval upon completion of the rights offering and Risks Related to

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Our Common Stock and Warrants Our directors, executive officers and principal stockholders control, and upon completion of the rights offering will continue to control, a significant portion of our stock and, if they choose to vote together, could have sufficient voting power to control the vote on substantially all corporate matters for more information.

What will happen if I choose not to exercise my subscription rights?

If you do not exercise any subscription rights, the number of shares of our common stock you own will not change as a result of the rights offering; however, due to the fact that shares will be purchased by other stockholders, your percentage ownership of our company will be significantly diluted after the completion of the rights offering.

How do I exercise my subscription rights?

You may exercise your subscription rights by properly completing and executing your rights certificate and delivering it, together with the subscription price for each Unit for which you subscribe, to the subscription agent on or prior to 5:00 p.m., Eastern Time, on the expiration date. If you use the mail, we recommend that you use insured, registered mail, return receipt requested. If you cannot deliver your rights certificate to the subscription agent on time, you may follow the guaranteed delivery procedures described under The Rights Offering Guaranteed Delivery Procedures. If you hold shares of our common stock through a broker, custodian bank or other nominee, see The Rights Offering Beneficial Owners.

What should I do if I want to participate in the rights offering, but my shares are held in the name of my broker, custodian bank or other nominee?

If you hold your shares of our common stock in the name of a broker, custodian bank or other nominee, we will ask your broker, custodian bank or other nominee to notify you of the rights offering. If you wish to exercise your rights, you will need to have your broker, custodian bank or other nominee act for you. To indicate your decision, you should complete and return to your broker, custodian bank or other nominee the form entitled Beneficial Owner Election Form. You should receive this form from your broker, custodian bank or other nominee with the other rights offering materials. You should contact your broker, custodian bank or other nominee if you believe you are entitled to participate in the rights offering but you have not received this form.

What should I do if I want to participate in the rights offering, but I am a stockholder with a foreign address or a stockholder with an APO or FPO address?

The subscription agent will not mail rights certificates to you if you are a stockholder whose address is outside the United States or if you have an Army Post Office or a Fleet Post Office address. Instead, we will have the subscription agent hold the subscription rights certificates for your account. To exercise your subscription rights, you must notify the subscription agent prior to 11:00 a.m., Eastern Time, at least three business days prior to the expiration date, and establish to the satisfaction of the subscription agent that it is permitted to exercise your subscription rights under

applicable law. If you do not follow these procedures in time, your rights will expire and will have no value. See The Rights Offering Foreign Stockholders.

After I send in my payment and rights certificate, may I cancel my exercise of subscription rights?

No. All exercises of subscription rights are irrevocable, even if you later learn information that you consider to be unfavorable to the exercise of your subscription rights. You should not exercise your subscription rights unless you are certain that you wish to purchase Units at the subscription price of \$0.02 per Unit.

When will I receive my new shares and warrants?

As soon as practicable after the closing of the rights offering, the subscription agent will arrange for the issuance of the shares of common stock and warrants underlying the Units purchased in the rights offering. Subject to state or foreign securities laws and regulations, we have the discretion to delay distribution of any shares and warrants underlying Units you may have elected to purchase by exercise of your rights in order to comply with state or foreign securities laws.

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How many shares of our common stock, warrants and options will be outstanding after the rights offering?

As of the record date, we had 41,811,048 shares of our common stock issued and outstanding. If all of the Units offered are sold, we will issue 175,000,000 shares of our common stock in the rights offering and under the purchase agreement with Lambda Investors. Assuming all of the Units offered are sold, no additional shares of our common stock are issued and no outstanding options or warrants are exercised prior to the completion of the rights offering and the private placement of Units with Lambda Investors, approximately 216,811,000 shares of our common stock will be outstanding immediately after the completion of the rights offering and the private placement of Units with Lambda Investors, which will equal approximately 10,840,000 shares after giving effect to our proposed 1-for-20 reverse stock split.

On the record date, warrants to purchase 8,191,827 shares of our common stock were outstanding. Upon completion of the rights offering, warrants to purchase 7,519,246 of those shares will become exercisable for an aggregate of 337,108,164 shares at an exercise price of \$0.02 per share as a result of the full-ratchet anti-dilution provisions contained in those warrants. Following the closing of the rights offering, and after giving effect to these anti-dilution provisions, Lambda Investors has agreed to surrender for cancellation warrants to purchase 161,793,248 shares of our common stock, which will equal the number of shares underlying warrants issued as part of the Units, assuming all of the Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold. After giving effect to the surrender for cancellation by Lambda Investors of such warrants to purchase 161,793,248 shares of our common stock, immediately after the completion of the rights offering and the private placement of Units with Lambda Investors, we will have outstanding warrants to purchase an aggregate of 337,108,164 shares of our common stock at an exercise price of \$0.02 per share and warrants to purchase another 672,581 shares of our common stock will not be affected by the rights offering. After giving effect to our proposed 1-for-20 reverse stock split, we anticipate having outstanding warrants to purchase approximately 16,889,000 shares of our common stock.

The rights offering will have no effect on any of our outstanding options. We currently have 2,696,976 shares of common stock authorized for issuance under the 2004 Plan, of which 1,650,708 remain eligible for future grant. Our board of directors has approved an increase in the number of shares authorized for issuance under the 2004 Plan to 39,814,340, and we will be asking our stockholders to approve this amendment at our upcoming annual meeting of stockholders to be held on January 10, 2011. If this amendment to the 2004 Plan and a proposed 1-for-20 reverse stock split are both approved by our stockholders and implemented by our board, we will have 1,990,717 shares authorized for issuance under the 2004 Plan. After giving effect to the proposed 1-for-20 reverse stock split, we anticipate having outstanding options to purchase approximately 44,000 shares of our common stock.

How much money will the company receive from the rights offering?

There is no minimum subscription requirement that must be met for us to close the rights offering. The total proceeds to us from the rights offering will depend on the number of subscription rights that are exercised. For every 100,000 Units subscribed for in the rights offering, we will raise \$20,000 in gross proceeds. Assuming all the Units offered are sold, the gross proceeds from the rights offering and under the purchase agreement with Lambda Investors will be \$3,500,000. It is estimated that the expenses of the rights offering will be \$200,000, and an estimated \$620,000 of the proceeds will be used to pay the principal, interest and fees associated with the note to Lambda Investors.

Are there risks in exercising my subscription rights or purchasing Units?

Yes. The exercise of your subscription rights involves substantial risks. Exercising your subscription rights involves the purchase of shares of our common stock and warrants underlying the Units. The purchase of Units should be considered as carefully as you would consider any other equity investment. Among other things, you should carefully consider the risks described under the heading **Risk Factors** in this prospectus.

If the rights offering is not completed, will my subscription payment be refunded to me?

Yes. The subscription agent will hold all funds it receives in a segregated bank account until completion of the rights offering. If the rights offering is not completed, all subscription payments received by the

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subscription agent will be returned, without interest or deduction, as soon as practicable. If you own shares in street name, it may take longer for you to receive payment because payments will be returned through the record holder of your shares.

Will the subscription rights or warrants be listed on a stock exchange or national market?

No. Neither the subscription rights nor warrants to purchase our common stock will be listed for trading on any stock exchange or market or on the OTC Bulletin Board.

Will the rights offering affect the listing of the common stock?

No. Our common stock will continue to trade on the OTC Bulletin Board under the ticker symbol NEPH, and the shares of common stock issued in the rights offering will also be quoted on the OTC Bulletin Board under the same ticker symbol.

May stockholders in all states participate in the rights offering?

The issuance and exercise of subscription rights is subject to compliance with state securities laws and regulations. Although we intend to distribute the rights to all stockholders, we reserve the right in some states to require stockholders, if they wish to participate, to state and agree upon exercise of their respective rights that they are acquiring the shares for investment purposes only, and that they have no present intention to resell or transfer any shares acquired. This rights offering is not being made and our securities are not being offered in any jurisdiction where the offer is not permitted under applicable local laws. We have the right, in our sole discretion, to not effect registration or qualification of the subscription rights in any state or other jurisdiction, or take any other action required by any state or other jurisdiction to allow the offer to take place in that state or jurisdiction. If you reside in a state or other jurisdiction in which registration, qualification or other action is necessary with which we choose not to comply, you will not be eligible to participate in the rights offering.

What fees or charges apply if I purchase Units?

We are not charging any fee or sales commission to issue subscription rights to you or to issue shares and warrants to our stockholders upon the exercise subscription rights. If you exercise your subscription rights through the record holder of your shares, you are responsible for paying any fees your record holder may charge you.

What are the material U.S. federal income tax consequences of exercising subscription rights?

A holder will not recognize income or loss for U.S. federal income tax purposes in connection with the receipt or exercise of subscription rights in the rights offering. For a detailed discussion, see The Rights Offering Material U.S. Federal Income Tax Consequences. You should consult your tax advisor as to the particular consequences to you of the rights offering.

To whom should I send my forms and payment?

If your shares are held in the name of a broker, dealer or other nominee, then you should send your subscription documents, rights certificate, and subscription payment to that record holder. If you are the record holder, then you should send your subscription documents, rights certificate, and subscription payment by hand delivery, first class mail or courier service to: Continental Stock Transfer & Trust Company, the subscription agent for the rights offering as follows:

Continental Stock Transfer & Trust Company
17 Battery Place, 8th Floor
New York, NY 10004
Attn: Reorganization Department

You also may submit payment by wire transfer of immediately available funds as follows:

JPMorgan Chase
ABA # 021-000021
Continental Stock Transfer & Trust Company as agent for Nephros, Inc.
Acct # 475-508351 FBO Nephros, Inc. Subscription

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You are solely responsible for completing delivery to the subscription agent of your subscription documents, rights certificate and payment. We urge you to allow sufficient time for delivery of your subscription materials to the subscription agent.

What if I have other questions?

If you have any questions or need further information or assistance concerning the method of subscribing or about the rights offering, please contact Morrow & Co., LLC, our information agent for this offering, at (203) 658-9400 (for brokerage firms and banks) or toll-free at (800) 414-4313 (for stockholders).

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RISK FACTORS

An investment in our securities involves a high degree of risk. You should consider carefully the following information about these risks, together with the other information contained in this prospectus, before you decide whether to buy our securities. The occurrence of any of the following risks could have a material adverse effect on our business, financial condition and results of operations.

Risks Related to Our Company

Our independent registered public accountants, in their audit report related to our financial statements for the year ended December 31, 2009, expressed substantial doubt about our ability to continue as a going concern.

Our independent registered public accounting firm has included an explanatory paragraph in their report on our financial statements included in this prospectus which expressed doubt as to our ability to continue as a going concern.

The accompanying financial statements have been prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses since inception and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern, and our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. Based on our current cash flow projections, we will need to raise additional funds through either the licensing or sale of our technologies or the additional public or private offerings of our securities. However, there is no guarantee that we will be able to obtain further financing, or do so on reasonable terms. If we are unable to raise additional funds on a timely basis, or at all, we will be forced to cease operations and you will lose all of your investment in our company.

We have a history of operating losses and a significant accumulated deficit, and we may not achieve or maintain profitability in the future.

We have not been profitable since our inception in 1997. As of September 30, 2010, we had an accumulated deficit of approximately \$91,243,000 primarily as a result of our research and development expenses and selling, general and administrative expenses. We expect to continue to incur additional losses for the foreseeable future as a result of a high level of operating expenses, significant up-front expenditures including the cost of clinical trials, production and marketing activities and very limited revenue from the sale of our products. We began sales of our first product in March 2004, and we may never realize sufficient revenues from the sale of our products or be profitable. Each of the following factors, among others, may influence the timing and extent of our profitability, if any:

- the action of the FDA on our 501(k) application for our hemodiafiltration system;
- the completion and success of additional clinical trials and of our regulatory approval processes for each of our ESRD therapy products in our target territories;
- the market acceptance of HDF therapy in the United States and of our technologies and products in each of our target markets;

- our ability to effectively and efficiently manufacture, market and distribute our products;
- our ability to sell our products at competitive prices which exceed our per unit costs; and
- the consolidation of dialysis clinics into larger clinical groups.

We require additional financing in the near future to fund our operations.

At September 30, 2010, we had cash and cash equivalents totaling approximately \$421,000 and tangible assets of approximately \$1,682,000. As of September 30, 2010, we estimated that these funds would allow us to keep operating only into the fourth quarter of 2010. We expect that the \$500,000 we raised in September 2010 from the issuance of the note to Lambda Investors will allow us to operate into February 2011. We must seek and obtain additional financing to fund our operations. If we cannot raise sufficient capital, we will be forced to cease operations and you will lose all of your investment in our company.

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If we do not receive FDA approval for our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter our operations will be significantly and adversely harmed.

We have not received approval from the FDA for our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. We received conditional approval for our IDE application from the FDA to begin human clinical trials of our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. We were granted this approval on the condition that, by March 5, 2007, we submit a response to two informational questions from the FDA. We responded to these questions. We obtained approval from Western IRB, Inc., which enabled us to proceed with our clinical trial.

We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

We can give no assurance when or if our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter will be approved by the FDA. If we fail to ultimately receive FDA approval, our operations would be significantly and adversely harmed.

We have limited experience selling our DSU water filtration system to dialysis clinics, and we might be unsuccessful in increasing our sales.

Our business strategy depends in part on our ability to sell our DSU water filtration system to hospitals and other healthcare facilities that include dialysis clinics. On July 1, 2009, we received approval from the FDA to market our DSU to dialysis clinics. We have limited experience at sales and marketing. If we are unsuccessful at manufacturing, marketing and selling our DSU, our operations and potential revenues might be adversely affected.

Certain customers individually account for a large portion of our product sales, and the loss of any of these customers could have a material adverse effect on our sales.

For the year ended December 31, 2009, two customers accounted for 87% of our product sales. In addition, those customers represented 78% of our accounts receivable as of December 31, 2009. We believe that the loss of either or both of these customers would have a material adverse effect on our product sales, at least temporarily, while we seek to replace such customers and/or self-distribute in the territories currently served by such customers.

We cannot sell our ESRD therapy products, including certain modifications thereto, until we obtain the requisite regulatory approvals and clearances in the countries in which we intend to sell our products. We have not obtained FDA approval for any of our ESRD therapy products, except for our HD190 filter, and cannot sell any of our other ESRD therapy products in the United

States unless and until we obtain such approval. If we fail to receive, or experience a significant delay in receiving, such approvals and clearances then we may not be able to get our products to market and enhance our revenues.

Our business strategy depends in part on our ability to get our products into the market as quickly as possible. We obtained the Conformité Européene, or CE, mark, which demonstrates compliance with the relevant European Union requirements and is a regulatory prerequisite for selling our products in the European Union and certain other countries that recognize CE marking (collectively, European Community), for our OLpur MDHDF filter series product in 2003 and received CE marking in November 2006 for our water filtration product, the Dual Stage Ultrafilter (DSU). We have not yet obtained the CE mark for any of our other products. Similarly, we cannot sell our ESRD therapy products in the United States until we receive FDA clearance.

In addition to the pre-market notification required pursuant to Section 510(k) of the FDC Act, the FDA could require us to obtain pre-market approval of our ESRD therapy products under Section 515 of the FDC

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Act, either because of legislative or regulatory changes or because the FDA does not agree with our determination that we are eligible to use the Section 510(k) pre-market notification process. The Section 515 pre-market approval process is a significantly more costly, lengthy and uncertain approval process and could materially delay our products coming to market. If we do obtain clearance for marketing of any of our devices under Section 510(k) of the FDC Act, then any changes we wish to make to such device that could significantly affect safety and effectiveness will require clearance of a notification pursuant to Section 510(k), and we may need to submit clinical and manufacturing comparability data to obtain such approval or clearance. We could not market any such modified device until we received FDA clearance or approval. We cannot guarantee that the FDA would timely, if at all, clear or approve any modified product for which Section 510(k) is applicable. Failure to obtain timely clearance or approval for changes to marketed products would impair our ability to sell such products and generate revenues in the United States.

The clearance and/or approval processes in the European Community and in the United States can be lengthy and uncertain and each requires substantial commitments of our financial resources and our management's time and effort. We may not be able to obtain further CE marking or any FDA approval for any of our ESRD therapy products in a timely manner or at all. Even if we do obtain regulatory approval, approval may be only for limited uses with specific classes of patients, processes or other devices. Our failure to obtain, or delays in obtaining, the necessary regulatory clearance and/or approvals with respect to the European Community or the United States would prevent us from selling our affected products in these regions. If we cannot sell some of our products in these regions, or if we are delayed in selling while waiting for the necessary clearance and/or approvals, our ability to generate revenues from these products will be limited.

If we are successful in our initial marketing efforts in some or all of our Target European Market and the United States, then we plan to market our ESRD therapy products in several countries outside of our Target European Market and the United States, including Korea and China, Canada and Mexico. Requirements pertaining to the sale of medical devices vary widely from country to country. It may be very expensive and difficult for us to meet the requirements for the sale of our ESRD therapy products in many of these countries. As a result, we may not be able to obtain the required approvals in a timely manner, if at all. If we cannot sell our ESRD therapy products outside of our Target European Market and the United States, then the size of our potential market could be reduced, which would limit our potential sales and revenues.

Clinical studies required for our ESRD therapy products are costly and time-consuming, and their outcome is uncertain.

Before obtaining regulatory approvals for the commercial sale of any of our ESRD therapy products in the United States and elsewhere, we must demonstrate through clinical studies that our products are safe and effective. We received conditional approval for our IDE application from the FDA to begin human clinical trials of our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. We were granted this approval on the condition that, by March 5, 2007, we submit a response to two informational questions from the FDA. We responded to these questions. We obtained approval from Western IRB, Inc., which enabled us to proceed with our clinical trial. We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We have submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

For products other than those for which we have already received marketing approval, if we do not prove in clinical trials that our ESRD therapy products are safe and effective, we will not obtain marketing approvals from the FDA and other applicable regulatory authorities. In particular, one or more of our ESRD therapy products may not exhibit the expected medical benefits, may cause harmful side effects, may not be effective in treating dialysis patients or may have other unexpected characteristics that preclude regulatory approval for any or all indications of use or limit commercial use if approved. The length of time necessary to

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complete clinical trials varies significantly and is difficult to predict. Factors that can cause delay or termination of our clinical trials include:

slower than expected patient enrollment due to the nature of the protocol, the proximity of subjects to clinical sites, the eligibility criteria for the study, competition with clinical trials for similar devices or other factors;
lower than expected retention rates of subjects in a clinical trial;
inadequately trained or insufficient personnel at the study site to assist in overseeing and monitoring clinical trials;
delays in approvals from a study site's review board, or other required approvals;
longer treatment time required to demonstrate effectiveness;
lack of sufficient supplies of the ESRD therapy product;
adverse medical events or side effects in treated subjects; and
lack of effectiveness of the ESRD therapy product being tested.

Even if we obtain positive results from clinical studies for our products, we may not achieve the same success in future studies of such products. Data obtained from clinical studies are susceptible to varying interpretations that could delay, limit or prevent regulatory approval. In addition, we may encounter delays or rejections based upon changes in FDA policy for device approval during the period of product development and FDA regulatory review of each submitted new device application. We may encounter similar delays in foreign countries. Moreover, regulatory approval may entail limitations on the indicated uses of the device. Failure to obtain requisite governmental approvals or failure to obtain approvals of the scope requested will delay or preclude our licensees or marketing partners from marketing our products or limit the commercial use of such products and will have a material adverse effect on our business, financial condition and results of operations.

In addition, some or all of the clinical trials we undertake may not demonstrate sufficient safety and efficacy to obtain the requisite regulatory approvals, which could prevent or delay the creation of marketable products. Our product development costs will increase if we have delays in testing or approvals, if we need to perform more, larger or different clinical trials than planned or if our trials are not successful. Delays in our clinical trials may harm our financial results and the commercial prospects for our products. Additionally, we may be unable to complete our clinical trials if we are unable to obtain additional capital.

We may be required to design and conduct additional clinical trials.

We may be required to design and conduct additional clinical trials to further demonstrate the safety and efficacy of our ESRD therapy product in countries, including the U.S., in which our products are not yet approved for sale, which may result in significant expense and delay. The FDA and foreign regulatory authorities may require new or additional clinical trials because of inconclusive results from current or earlier clinical trials, a possible failure to conduct clinical trials in complete adherence to FDA good clinical practice standards and similar standards of foreign regulatory authorities, the identification of new clinical trial endpoints, or the need for additional data regarding the safety or efficacy of our ESRD therapy products. It is possible that the FDA or foreign regulatory authorities may not ultimately approve our products for commercial sale in any jurisdiction, even if we believe future clinical results are positive.

We cannot assure you that our ESRD therapy products will be safe and we are required under applicable law to report any product-related deaths or serious injuries or product malfunctions that could result in deaths or serious injuries, and such reports could trigger recalls, class action lawsuits and other events that could cause us to incur expenses and may also limit our ability to

generate revenues from such products.

We cannot assure you that our ESRD therapy products will be safe. Under the FDC Act, we are required to submit medical device reports, or MDRs, to the FDA to report device-related deaths, serious injuries and product malfunctions that could result in death or serious injury if they were to recur. Depending on their

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significance, MDRs could trigger events that could cause us to incur expenses and may also limit our ability to generate revenues from such products, such as the following:

information contained in the MDRs could trigger FDA regulatory actions such as inspections, recalls and patient/physician notifications;

because the reports are publicly available, MDRs could become the basis for private lawsuits, including class actions; and

if we fail to submit a required MDR to the FDA, the FDA could take enforcement action against us.

If any of these events occur, then we could incur significant expenses and it could become more difficult for us to gain market acceptance of our ESRD therapy products and to generate revenues from sales. Other countries may impose analogous reporting requirements that could cause us to incur expenses and may also limit our ability to generate revenues from sales of our ESRD therapy products.

Product liability associated with the production, marketing and sale of our products, and/or the expense of defending against claims of product liability, could materially deplete our assets and generate negative publicity which could impair our reputation.

The production, marketing and sale of kidney dialysis and water-filtration products have inherent risks of liability in the event of product failure or claim of harm caused by product operation. Furthermore, even meritless claims of product liability may be costly to defend against. Although we have acquired product liability insurance in the amount of \$5,000,000 for our products, we may not be able to maintain or obtain this insurance on acceptable terms or at all. Because we may not be able to obtain insurance that provides us with adequate protection against all potential product liability claims, a successful claim in excess of our insurance coverage could materially deplete our assets. Moreover, even if we are able to obtain adequate insurance, any claim against us could generate negative publicity, which could impair our reputation and adversely affect the demand for our products, our ability to generate sales and our profitability.

Some of the agreements that we may enter into with manufacturers of our products and components of our products may require us:

To obtain product liability insurance in certain amounts; or

To indemnify manufacturers against liabilities resulting from the sale of our products.

For example, the agreement with our contract manufacturer, or CM, requires that we obtain and maintain certain minimum product liability insurance coverage and that we indemnify our CM against certain liabilities arising out of our products that they manufacture, provided they do not arise out of our CM's breach of the agreement, negligence or willful misconduct. If we are not able to obtain and maintain adequate product liability insurance, then we could be in breach of these agreements, which could materially adversely affect our ability to produce our products and generate revenues. Even if we are able to obtain and maintain product liability insurance, if a successful claim in excess of our insurance coverage is made, then we may have to indemnify some or all of our manufacturers for their losses, which could materially deplete our assets.

If we violate any provisions of the FDC Act or any other statutes or regulations, then we could be subject to enforcement actions by the FDA or other governmental agencies.

We face a significant compliance burden under the FDC Act and other applicable statutes and regulations which govern the testing, labeling, storage, record keeping, distribution, sale, marketing, advertising and promotion of our ESRD therapy products. If we violate the FDC Act or other regulatory requirements at any time during or after the product development and/or approval process, we could be subject to enforcement actions by the FDA or other agencies, including:

finer;
injunctive;
civil penalties;
recalls or seizures of products;

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total or partial suspension of the production of our products;
withdrawal of any existing approvals or pre-market clearances of our products;
refusal to approve or clear new applications or notices relating to our products;
recommendations by the FDA that we not be allowed to enter into government contracts; and
criminal prosecution.

Any of the above could have a material adverse effect on our business, financial condition and results of operations.

Significant additional governmental regulation could subject us to unanticipated delays which would adversely affect our sales and revenues.

Our business strategy depends in part on our ability to get our products into the market as quickly as possible. Additional laws and regulations, or changes to existing laws and regulations that are applicable to our business may be enacted or promulgated, and the interpretation, application or enforcement of the existing laws and regulations may change. We cannot predict the nature of any future laws, regulations, interpretations, applications or enforcements or the specific effects any of these might have on our business. Any future laws, regulations, interpretations, applications or enforcements could delay or prevent regulatory approval or clearance of our products and our ability to market our products. Moreover, changes that result in our failure to comply with the requirements of applicable laws and regulations could result in the types of enforcement actions by the FDA and/or other agencies as described above, all of which could impair our ability to have manufactured and to sell the affected products.

Access to the appropriations from the U.S. Department of Defense regarding the development of a dual-stage water ultrafilter could be subject to unanticipated delays which could adversely affect our potential revenues.

Our business strategy with respect to our DSU products depends in part on the successful development of DSU products for use by the military. Beginning in January 2008, we contracted with the U.S. Office of Naval Research to develop a personal potable water purification system for warfighters under a first contract in an amount not to exceed \$866,000. In August 2009, we entered into a second contract with a value not to exceed \$2 million. These contracts would utilize the Federal appropriations from the U.S. Department of Defense not to exceed \$3 million that have been approved for this purpose. If there are unanticipated delays in receiving the appropriations from the U.S. Department of Defense, our operations and potential revenues may be adversely affected. Further, if we do not successfully complete the contract work or renew the contract work in the event that the research and development needs additional work to reach completion, our operations and potential revenues may be adversely affected.

Protecting our intellectual property in our technology through patents may be costly and ineffective. If we are not able to adequately secure or enforce protection of our intellectual property, then we may not be able to compete effectively and we may not be profitable.

Our future success depends in part on our ability to protect the intellectual property for our technology through patents. We will only be able to protect our products and methods from unauthorized use by third parties to the extent that our products and methods are covered by valid and enforceable patents or are effectively maintained as trade secrets. Our 16 granted U.S. patents will expire at various times from 2018 to 2022, assuming they are properly maintained.

The protection provided by our patents, and patent applications if issued, may not be broad enough to prevent competitors from introducing similar products into the market. Our patents, if challenged or if we attempt to enforce them, may not necessarily be upheld by the courts of any jurisdiction. Numerous publications may have been disclosed by, and numerous patents may have been issued to, our competitors and others relating to methods and devices for dialysis of which we are not aware and additional patents relating to methods and devices for dialysis may be issued to our competitors and others in the future. If any of those publications or patents conflict with our patent rights, or cover our products, then any or all of our patent

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applications could be rejected and any or all of our granted patents could be invalidated, either of which could materially adversely affect our competitive position.

Litigation and other proceedings relating to patent matters, whether initiated by us or a third party, can be expensive and time-consuming, regardless of whether the outcome is favorable to us, and may require the diversion of substantial financial, managerial and other resources. An adverse outcome could subject us to significant liabilities to third parties or require us to cease any related development, product sales or commercialization activities. In addition, if patents that contain dominating or conflicting claims have been or are subsequently issued to others and the claims of these patents are ultimately determined to be valid, then we may be required to obtain licenses under patents of others in order to develop, manufacture, use, import and/or sell our products. We may not be able to obtain licenses under any of these patents on terms acceptable to us, if at all. If we do not obtain these licenses, we could encounter delays in, or be prevented entirely from using, importing, developing, manufacturing, offering or selling any products or practicing any methods, or delivering any services requiring such licenses.

If we file patent applications or obtain patents in foreign countries, we will be subject to laws and procedures that differ from those in the United States. Such differences could create additional uncertainty about the level and extent of our patent protection. Moreover, patent protection in foreign countries may be different from patent protection under U.S. laws and may not be as favorable to us. Many non-U.S. jurisdictions, for example, prohibit patent claims covering methods of medical treatment of humans, although this prohibition may not include devices used for such treatment.

If we are not able to secure and enforce protection of our trade secrets through enforcement of our confidentiality and non-competition agreements, then our competitors may gain access to our trade secrets, we may not be able to compete effectively and we may not be profitable. Such protection may be costly and ineffective.

We attempt to protect our trade secrets, including the processes, concepts, ideas and documentation associated with our technologies, through the use of confidentiality agreements and non-competition agreements with our current employees and with other parties to whom we have divulged such trade secrets. If these employees or other parties breach our confidentiality agreements and non-competition agreements or if these agreements are not sufficient to protect our technology or are found to be unenforceable, then our competitors could acquire and use information that we consider to be our trade secrets and we may not be able to compete effectively. Policing unauthorized use of our trade secrets is difficult and expensive, particularly because of the global nature of our operations. The laws of other countries may not adequately protect our trade secrets.

If our trademarks and trade names are not adequately protected, then we may not be able to build brand loyalty and our sales and revenues may suffer.

Our registered or unregistered trademarks or trade names may be challenged, cancelled, infringed, circumvented or declared generic or determined to be infringing on other marks. We may not be able to protect our rights to these trademarks and trade names, which we need to build brand loyalty. Over the long term, if we are unable to establish a brand based on our trademarks and trade names, then we may not be able to compete effectively and our sales and revenues may suffer.

If we are not able to secure and enforce protection of our trade secrets through enforcement of our confidentiality a

If we are not able to successfully scale-up production of our products, then our sales and revenues will suffer.

In order to commercialize our products, we need to be able to produce them in a cost-effective way on a large scale to meet commercial demand, while maintaining extremely high standards for quality and reliability. If we fail to successfully commercialize our products, then we will not be profitable.

We expect to rely on a limited number of independent manufacturers to produce our OLpur MDHDF filter series and our other products, including the DSU. Our manufacturers' systems and procedures may not be adequate to support our operations and may not be able to achieve the rapid execution necessary to exploit the market for our products. Our manufacturers could experience manufacturing and control problems as they begin to scale-up our future manufacturing operations, if any, and we may not be able to scale-up

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manufacturing in a timely manner or at a commercially reasonable cost to enable production in sufficient quantities. If we experience any of these problems with respect to our manufacturers' initial or future scale-ups of manufacturing operations, then we may not be able to have our products manufactured and delivered in a timely manner. Our products are new and evolving, and our manufacturers may encounter unforeseen difficulties in manufacturing them in commercial quantities or at all.

We will not control the independent manufacturers of our products, which may affect our ability to deliver our products in a timely manner. If we are not able to ensure the timely delivery of our products, then potential customers may not order our products, and our sales and revenues would be adversely affected.

Independent manufacturers of medical devices will manufacture all of our products and components. We have contracted with our CM to assemble and produce our OLpur MD190, MD220 and possibly other filters, including our DSU, and have an agreement with FS, a manufacturer of medical and technical membranes for applications like dialysis, to produce the fiber for the OLpur MDHDF filter series. As with any independent contractor, these manufacturers will not be employed or otherwise controlled by us and will be generally free to conduct their business at their own discretion. For us to compete successfully, among other things, our products must be manufactured on a timely basis in commercial quantities at costs acceptable to us. If one or more of our independent manufacturers fails to deliver our products in a timely manner, then we may not be able to find a substitute manufacturer. If we are not or if potential customers believe that we are not able to ensure timely delivery of our products, then potential customers may not order our products, and our sales and revenues would be adversely affected.

The loss or interruption of services of any of our manufacturers could slow or stop production of our products, which would limit our ability to generate sales and revenues.

Because we are likely to rely on no more than two contract manufacturers to manufacture each of our products and major components of our products, a stop or significant interruption in the supply of our products or major components by a single manufacturer, for any reason, could have a material adverse effect on us. We expect most of our contract manufacturers will enter into contracts with us to manufacture our products and major components and that these contracts will be terminable by the contractors or us at any time under certain circumstances. We have not made alternative arrangements for the manufacture of our products or major components and we cannot be sure that acceptable alternative arrangements could be made on a timely basis, or at all, if one or more of our manufacturers failed to manufacture our products or major components in accordance with the terms of our arrangements. If any such failure occurs and we are unable to obtain acceptable alternative arrangements for the manufacture of our products or major components of our products, then the production and sale of our products could slow down or stop and our cash flow would suffer.

If we are not able to maintain sufficient quality controls, then the approval or clearance of our ESRD therapy products by the European Union, the FDA or other relevant authorities could be delayed or denied and our sales and revenues will suffer.

Approval or clearance of our ESRD therapy products could be delayed by the European Union, the FDA and the relevant authorities of other countries if our manufacturing facilities do not comply with their respective manufacturing requirements. The European Union imposes requirements on quality control systems of manufacturers, which are inspected and certified on a periodic basis and may be subject to additional unannounced inspections. Failure by our manufacturers to comply with these requirements could prevent us from marketing our ESRD therapy products in the European Community. The FDA also imposes requirements through quality system requirements, or QSR, regulations, which include requirements for good manufacturing practices, or GMP. Failure by our manufacturers to comply with these requirements could prevent us from obtaining FDA approval of our ESRD therapy products and from marketing such products in the United States. Although the manufacturing facilities and processes that we use to manufacture our OLpur MDHDF filter series have been inspected and certified by a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, they have not been inspected by the FDA. Similarly, although some of the facilities and processes

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that we expect to use to manufacture our OLpur H₂H and OLpur NS2000 have been inspected by the FDA, they have not been inspected by any notified body. A notified body is a group accredited and monitored by governmental agencies that inspects manufacturing facilities and quality control systems at regular intervals and is authorized to carry out unannounced inspections. We cannot be sure that any of the facilities or processes we use will comply or continue to comply with their respective requirements on a timely basis or at all, which could delay or prevent our obtaining the approvals we need to market our products in the European Community and the United States.

To market our ESRD therapy products in the European Community, the United States and other countries, where approved, manufacturers of such products must continue to comply or ensure compliance with the relevant manufacturing requirements. Although we cannot control the manufacturers of our ESRD therapy products, we may need to expend time, resources and effort in product manufacturing and quality control to assist with their continued compliance with these requirements. If violations of applicable requirements are noted during periodic inspections of the manufacturing facilities of our manufacturers, then we may not be able to continue to market the ESRD therapy products manufactured in such facilities and our revenues may be materially adversely affected.

If our products are commercialized, we may face significant challenges in obtaining market acceptance of such products, which could adversely affect our potential sales and revenues.

Our products are new to the market, and we do not yet have an established market or customer base for our products. Acceptance of our ESRD therapy products in the marketplace by both potential users, including ESRD patients, and potential purchasers, including nephrologists, dialysis clinics and other health care providers, is uncertain, and our failure to achieve sufficient market acceptance will significantly limit our ability to generate revenue and be profitable. Market acceptance will require substantial marketing efforts and the expenditure of significant funds by us to inform dialysis patients and nephrologists, dialysis clinics and other health care providers of the benefits of using our ESRD therapy products. We may encounter significant clinical and market resistance to our products and our products may never achieve market acceptance. We may not be able to build key relationships with physicians, clinical groups and government agencies, pursue or increase sales opportunities in Europe or elsewhere, or be the first to introduce hemodiafiltration therapy in the United States. Product orders may be cancelled, patients or customers currently using our products may cease to do so and patients or customers expected to begin using our products may not. Factors that may affect our ability to achieve acceptance of our ESRD therapy products in the marketplace include whether:

such products will be safe for use;

such products will be effective;

such products will be cost-effective;

we will be able to demonstrate product safety, efficacy and cost-effectiveness;

there are unexpected side effects, complications or other safety issues associated with such products; and government or third party reimbursement for the cost of such products is available at reasonable rates, if at all.

Acceptance of our water filtration products in the marketplace is also uncertain, and our failure to achieve sufficient market acceptance and sell such products at competitive prices will limit our ability to generate revenue and be profitable. Our water filtration products and technologies may not achieve expected reliability, performance and endurance standards. Our water filtration products and technology may not achieve market acceptance, including among hospitals, or may not be deemed suitable for other commercial, military, industrial or retail applications.

Many of the same factors that may affect our ability to achieve acceptance of our ESRD therapy products in the marketplace will also apply to our water filtration products, except for those related to side effects, clinical trials and

third party reimbursement.

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If we cannot develop adequate distribution, customer service and technical support networks, then we may not be able to market and distribute our products effectively and/or customers may decide not to order our products, and, in either case, our sales and revenues will suffer.

Our strategy requires us to distribute our products and provide a significant amount of customer service and maintenance and other technical service. To provide these services, we have begun, and will need to continue, to develop a network of distribution and a staff of employees and independent contractors in each of the areas in which we intend to operate. We cannot assure you we will be able to organize and manage this network on a cost-effective basis. If we cannot effectively organize and manage this network, then it may be difficult for us to distribute our products and to provide competitive service and support to our customers, in which case customers may be unable, or decide not, to order our products and our sales and revenues will suffer.

We may face significant risks associated with international operations, which could have a material adverse effect on our business, financial condition and results of operations.

We expect to manufacture and to market our products in our Target European Market and elsewhere outside of the United States. We expect that our revenues from our Target European Market will initially account for a significant portion of our revenues. Our international operations are subject to a number of risks, including the following:

fluctuations in exchange rates of the United States dollar could adversely affect our results of operations;
we may face difficulties in enforcing and collecting accounts receivable under some countries' legal systems;
local regulations may restrict our ability to sell our products, have our products manufactured or conduct other operations;
political instability could disrupt our operations;
some governments and customers may have longer payment cycles, with resulting adverse effects on our cash flow;
and

some countries could impose additional taxes or restrict the import of our products.
Any one or more of these factors could increase our costs, reduce our revenues, or disrupt our operations, which could have a material adverse effect on our business, financial condition and results of operations.

If we are unable to keep our key management and scientific personnel, then we are likely to face significant delays at a critical time in our corporate development and our business is likely to be damaged.

Our success depends upon the skills, experience and efforts of our management and other key personnel, including our chief executive officer, certain members of our scientific and engineering staff and our marketing executives. As a relatively new company, much of our corporate, scientific and technical knowledge is concentrated in the hands of these few individuals. We do not maintain key-man life insurance on any of our management or other key personnel.

The recent resignation of our Chief Executive Officer or the loss of the services of one or more of our present management or other key personnel could significantly delay the development and/or launch of our products as there could be a learning curve of several months or more for any replacement personnel. Furthermore, competition for the type of highly skilled individuals we require is intense and we may not be able to attract and retain new employees of the caliber needed to achieve our objectives. Failure to replace key personnel could have a material adverse effect on

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Risks Related to the ESRD Therapy Industry

We expect to face significant competition from existing suppliers of renal replacement therapy devices, supplies and services. If we are not able to compete with them effectively, then we may not be profitable.

We expect to compete in the ESRD therapy market with existing suppliers of hemodialysis and peritoneal dialysis devices, supplies and services. Our competitors include Fresenius Medical Care AG and Gambro AB, currently two of the primary machine manufacturers in hemodialysis, as well as B. Braun Biotech International GmbH, and Nikkiso Corporation and other smaller machine manufacturers in hemodialysis. B. Braun Biotech International GmbH, Fresenius Medical Care AG, Gambro AB and Nikkiso Corporation also manufacture HDF machines. These companies and most of our other competitors have longer operating histories and substantially greater financial, marketing, technical, manufacturing and research and development resources and experience than we have. Our competitors could use these resources and experiences to develop products that are more effective or less costly than any or all of our products or that could render any or all of our products obsolete. Our competitors could also use their economic strength to influence the market to continue to buy their existing products.

We do not have a significant established customer base and may encounter a high degree of competition in further developing one. Our potential customers are a limited number of nephrologists, national, regional and local dialysis clinics and other healthcare providers. The number of our potential customers may be further limited to the extent any exclusive relationships exist or are entered into between our potential customers and our competitors. We cannot assure you that we will be successful in marketing our products to these potential customers. If we are not able to develop competitive products and take and hold sufficient market share from our competitors, we will not be profitable.

Some of our competitors own or could acquire dialysis clinics throughout the United States, our Target European Market and other regions of the world. We may not be able to successfully market our products to the dialysis clinics under their ownership. If our potential market is materially reduced in this manner, then our potential sales and revenues could be materially reduced.

Some of our competitors, including Fresenius Medical Care AG and Gambro AB, manufacture their own products and own dialysis clinics in the United States, our Target European Market and/or other regions of the world. In 2005, Gambro AB divested its U.S. dialysis clinics to DaVita, Inc. and entered a preferred, but not exclusive, ten-year supplier arrangement with DaVita, Inc., whereby DaVita, Inc. will purchase a significant amount of renal products and supplies from Gambro AB Renal Products. Because these competitors have historically tended to use their own products in their clinics, we may not be able to successfully market our products to the dialysis clinics under their ownership. According to the Fresenius Medical Care AG Form 20-F Annual Report for the year ended December 31, 2009, Fresenius Medical Care AG provides treatment in its own dialysis clinics to approximately 195,651 patients in its facilities around the world including facilities located in the North America. According to DaVita, Inc.'s Annual Report for the year ended December 31, 2009, DaVita, Inc. provides treatment in 1,530 outpatient dialysis centers serving approximately 118,000 patients in the United States.

We believe that there is currently a trend among ESRD therapy providers towards greater consolidation. If such consolidation takes the form of our competitors acquiring independent dialysis clinics, rather than such dialysis clinics

banding together in independent chains, then more of our potential customers would also be our competitors. If our competitors continue to grow their networks of dialysis clinics, whether organically or through consolidation, and if we cannot successfully market our products to dialysis clinics owned by these competitors or any other competitors and do not acquire clinics ourselves, then our revenues could be adversely affected.

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If the size of the potential market for our products is significantly reduced due to pharmacological or technological advances in preventative and alternative treatments for ESRD, then our potential sales and revenues will suffer.

Pharmacological or technological advances in preventative or alternative treatments for ESRD could significantly reduce the number of ESRD patients needing our products. These pharmacological or technological advances may include:

the development of new medications, or improvements to existing medications, which help to delay the onset or prevent the progression of ESRD in high-risk patients (such as those with diabetes and hypertension);

the development of new medications, or improvements in existing medications, which reduce the incidence of kidney transplant rejection; and

developments in the use of kidneys harvested from genetically-engineered animals as a source of transplants.

If these or any other pharmacological or technological advances reduce the number of patients needing treatment for ESRD, then the size of the market for our products may be reduced and our potential sales and revenues will suffer.

If government and other third party reimbursement programs discontinue their coverage of ESRD treatment or reduce reimbursement rates for ESRD products, then we may not be able to sell as many units of our ESRD therapy products as otherwise expected, or we may need to reduce the anticipated prices of such products and, in either case, our potential revenues may be reduced.

Providers of renal replacement therapy are often reimbursed by government programs, such as Medicare or Medicaid in the United States, or other third-party reimbursement programs, such as private medical care plans and insurers. We believe that the amount of reimbursement for renal replacement therapy under these programs has a significant impact on the decisions of nephrologists, dialysis clinics and other health care providers regarding treatment methods and products. Accordingly, changes in the extent of coverage for renal replacement therapy or a reduction in the reimbursement rates under any or all of these programs may cause a decline in recommendations or purchases of our products, which would materially adversely affect the market for our products and reduce our potential sales. Alternatively, we might respond to reduced reimbursement rates by reducing the prices of our products, which could also reduce our potential revenues.

As the number of managed health care plans increases in the United States, amounts paid for our ESRD therapy products by non-governmental programs may decrease and we may not generate sufficient revenues to be profitable.

We expect to obtain a portion of our revenues from reimbursement provided by non-governmental programs in the United States. Although non-governmental programs generally pay higher reimbursement rates than governmental programs, of the non-governmental programs, managed care plans generally pay lower reimbursement rates than insurance plans. Reliance on managed care plans for dialysis treatment may increase if future changes to the Medicare program require non-governmental programs to assume a greater percentage of the total cost of care given to dialysis patients over the term of their illness, or if managed care plans otherwise significantly increase their enrollment of

these patients. If the reliance on managed care plans for dialysis treatment increases, more patients join managed care plans or managed care plans reduce reimbursement rates, we may need to reduce anticipated prices of our ESRD therapy products or sell fewer units, and, in either case, our potential revenues would suffer.

If HDF does not become a preferred therapy for ESRD, then the market for our ESRD therapy products may be limited and we may not be profitable.

A significant portion of our success is dependent on the acceptance and implementation of HDF as a preferred therapy for ESRD. There are several treatment options currently available and others may be developed. HDF may not increase in acceptance as a preferred therapy for ESRD. If it does not, then the market for our ESRD therapy products may be limited and we may not be able to sell a sufficient quantity of our products to be profitable.

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If the per-treatment costs for dialysis clinics using our ESRD therapy products are higher than the costs of clinics providing hemodialysis treatment, then we may not achieve market acceptance of our ESRD therapy products in the United States and our potential sales and revenues will suffer.

If the cost of our ESRD therapy products results in an increased cost to the dialysis clinic over hemodialysis therapies and such cost is not separately reimbursable by governmental programs or private medical care plans and insurers outside of the per-treatment fee, then we may not gain market acceptance for such products in the United States unless HDF therapy becomes the standard treatment method for ESRD. If we do not gain market acceptance for our ESRD therapy products in the United States, then the size of our market and our anticipated sales and revenues will be reduced.

Proposals to modify the health care system in the United States or other countries could affect the pricing of our products. If we cannot sell our products at the prices we plan to, then our margins and our profitability will be adversely affected.

A substantial portion of the cost of treatment for ESRD in the United States is currently reimbursed by the Medicare program at prescribed rates. Proposals to modify the current health care system in the United States to improve access to health care and control its costs are continually being considered by the federal and state governments. In March 2010, the U.S. Congress passed landmark healthcare legislation. We cannot predict what impact on federal reimbursement policies this legislation will have in general or on our business specifically. We anticipate that the U.S. Congress and state legislatures will continue to review and assess this legislation and possibly alternative health care reform proposals. We cannot predict whether new proposals will be made or adopted, when they may be adopted or what impact they may have on us if they are adopted. Any spending decreases or other significant changes in the Medicare program could affect the pricing of our ESRD therapy products. As we are not yet established in our business and it will take some time for us to begin to recoup our research and development costs, our profit margins are likely initially to be lower than those of our competitors and we may be more vulnerable to small decreases in price than many of our competitors.

Health administration authorities in countries other than the United States may not provide reimbursement for our products at rates sufficient for us to achieve profitability, or at all. Like the United States, these countries have considered health care reform proposals and could materially alter their government-sponsored health care programs by reducing reimbursement rates for dialysis products.

Any reduction in reimbursement rates under Medicare or foreign health care programs could negatively affect the pricing of our ESRD therapy products. If we are not able to charge a sufficient amount for our products, then our margins and our profitability will be adversely affected.

If patients in our Target European Market were to reuse dialyzers, then our potential product sales could be materially adversely affected.

In the United States, a majority of dialysis clinics reuse dialyzers that is, a single dialyzer is disinfected and reused by the same patient. However, the trend in our Target European Market is towards not reusing dialyzers, and some countries (such as France, Germany, Italy and the Netherlands) actually forbid the reuse of dialyzers. As a result, each

If HDF does not become a preferred therapy for ESRD, then the market for our ESRD therapy products may be limited.

patient in our Target European Market can generally be expected to purchase more dialyzers than each United States patient. The laws forbidding reuse could be repealed and it may become generally accepted to reuse dialyzers in our Target European Market, just as it currently is in the United States. If reuse of dialyzers were to become more common among patients in our Target European Market, then there would be demand for fewer dialyzer units and our potential product sales could be materially adversely affected.

Risks Related to the Rights Offering

Even assuming a successful completion of the rights offering, we will need additional capital in the future.

If we raise \$3,500,000 in gross proceeds from the rights offering and under the purchase agreement with Lambda Investors, we expect that we will be able to operate through the fourth quarter of 2011. Thereafter we will need additional capital. There can be no assurance that we will be able to raise additional capital at that

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time. If we are unable to raise capital when needed, we will not be able to execute our business strategy and accomplish our objectives, we will be forced to cease operations, and you will lose all or some part of your investment in our company.

The subscription price determined for the rights offering is not an indication of the fair value of our common stock.

As a condition to making the loan, Lambda Investors required that we undertake a rights offering to raise additional funds to meet our ongoing financial requirements and to repay the loan. In its loan proposal, Lambda Investors specified a rights offering of 175,000,000 Units consisting of shares and warrants to purchase shares of our common stock, and that it be made at a subscription price of \$0.02 per Unit to encourage our other stockholders to participate. The loan and the rights offering, as proposed by Lambda Investors, including the \$0.02 per Unit subscription price, were approved by a special committee of our independent directors (none of whom are affiliated with Lambda Investors) after consideration of the financing alternatives available to us. In an effort to minimize the dilutive effect of the rights offering, Lambda Investors proposed that it would surrender for cancellation a portion of its existing warrants containing anti-dilution provisions that will be triggered by the rights offering. The number of shares underlying such cancelled warrants would equal the total number of shares underlying the warrants to be issued in the rights offering. The special committee considered, among other things, that (i) we are not currently in a position to attract an outside investor or investors with a stock offering at a more favorable discount to the current trading price of our stock, and (ii) even if we were able to make such an offering, without any inducement for Lambda Investors to surrender for cancellation a portion of its existing warrants as it has agreed to do in the rights offering, the dilution suffered by current investors would have been greater than the dilution participating stockholders will be subject to in the rights offering. See The Rights Offering Dilution. The \$0.02 per Unit subscription price was not based on any discount to the market price of our common stock. The subscription price is not necessarily related to our book value, net worth or any other established criteria of value and may or may not be considered the fair value of our common stock included in the Units being offered in the rights offering. We did not consult with any financial or other advisor in determining the subscription price. After the date of this prospectus, our common stock may trade at prices above or below the subscription price.

The market price of our common stock is volatile and may decline before or after the subscription rights expire.

The market price of our common stock could be subject to wide fluctuations in response to numerous factors, some of which are beyond our control. These factors include, among other things: the FDA's action regarding our 501(k) application for our hemodiafiltration system; achievement or rejection of regulatory approvals by our competitors or us; publicity regarding actual or potential clinical or regulatory results relating to products under development by our competitors or us; delays or failures in initiating, completing or analyzing clinical trials or the unsatisfactory design or results of these trials; announcements of technological innovations or new commercial products by our competitors or us; developments concerning proprietary rights, including patents; regulatory developments in the United States and foreign countries; economic or other crises and other external factors; period-to-period fluctuations in our results of operations; and sales of our common stock.

Once you exercise your subscription rights, you may not revoke them. We cannot assure you that the market price of our common stock will not decline after you elect to exercise your subscription rights. If you exercise your subscription rights and, afterwards, the public trading market price of our common stock decreases below the subscription price, you will have committed to buying shares of our common stock at a price above the prevailing market price and could have an immediate unrealized loss. Our common stock is quoted on the OTC Bulletin Board

Even assuming a successful completion of the rights offering, we will need additional capital in the future. 65

under the ticker symbol NEPH, and the last reported sales price of our common stock on the OTC Bulletin Board on December 17, 2010 was \$0.11 per share. Moreover, we cannot assure you that following the exercise of your subscription rights you will be able to sell your common stock at a price equal to or greater than the subscription price. Until shares are delivered upon expiration of the rights offering, you will not be able to sell the shares of our common stock that you purchase in the rights offering.

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If you do not exercise your subscription rights at all, your percentage ownership and voting rights in our company will be significantly diluted.

If you choose not to exercise your subscription rights, you will retain your current number of shares of common stock of our company. However, if you choose not to exercise your subscription rights and all of the Units offered are sold to other stockholders, you will experience significant (over 80%) dilution in your percentage ownership and voting rights in our company as other stockholders acquire an aggregate of 175,000,000 shares of common stock and warrants to purchase 161,793,248 shares of common stock in the rights offering.

Even if you do exercise your subscription rights in full, your percentage ownership and voting rights in our company will be diluted to the extent that existing warrants containing anti-dilution provisions triggered by the rights offering are held and exercised by stockholders other than you.

Upon completion of the rights offering, warrants to purchase 7,519,246 shares of our common stock will become exercisable for an aggregate of 337,108,164 shares at an exercise price of \$0.02 per share as a result of full-ratchet anti-dilution provisions contained in those warrants. Following the closing of the rights offering, and after giving effect to these anti-dilution provisions, Lambda Investors has agreed to surrender for cancellation warrants to purchase 161,793,248 shares of our common stock, which will equal the number of shares underlying warrants issued as part of the Units, assuming all Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold. After giving effect to the surrender for cancellation by Lambda Investors of such warrants to purchase 161,793,248 shares of our common stock, existing warrants to purchase 167,795,670 shares of our common stock will remain outstanding. To the extent such warrants are exercised by stockholders other than you, you will experience dilution in your percentage ownership and voting rights in our company, even if in the rights offering you exercise your basic subscription privilege in full. For example, if warrants to purchase 25%, or 41,948,917, of such shares were exercised by stockholders other than you, you would see your percentage ownership and voting rights decrease by about 10%. If warrants to purchase 50%, or 83,897,835, of such shares were exercised by stockholders other than you, you would see your percentage ownership and voting rights decrease by about 18%. If warrants to purchase 75%, or 125,846,752, of such shares were exercised by stockholders other than you, you would see your percentage ownership and voting rights decrease by about 25%. If warrants to purchase 100%, or all 167,795,670, of such shares were exercised by stockholders other than you, you would see your percentage ownership and voting rights decrease by about 31%.

Lambda Investors will continue to be able to exercise substantial control over matters requiring stockholder approval upon completion of the rights offering.

As of the record date, Lambda Investors beneficially owned approximately 43.9% of the outstanding shares of our common stock (which includes warrants to purchase an aggregate of 7,190,811 shares of our common stock). Lambda Investors has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266

If you do not exercise your subscription rights at all, your percentage ownership and voting rights in our company will

Units under the purchase agreement. See The Rights Offering Background of the Rights Offering Purchase Agreement with Lambda Investors. If Lambda Investors purchases these 60,194,226 Units, the beneficial ownership percentage of Lambda Investors following completion of the rights offering will increase to approximately 67.2% of our common stock (after giving effect to the anti-dilution provisions contained in its existing warrants and its surrender of a portion of these warrants upon completion of the rights offering). If this occurs, it will enhance the ability Lambda Investors already has to exercise substantial control over matters requiring stockholder approval. Your interests as a holder of common stock may differ from the interests of Lambda Investors.

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Our management will have broad discretion over the use of the net proceeds from the rights offering; you may not agree with how we use the proceeds, and we may not invest the proceeds successfully.

We must first use proceeds from the rights offering to repay the \$500,000 loan from Lambda Investors, plus all accrued interest thereon, as well as an 8% sourcing/transaction fee (\$40,000) and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the loan and the rights offering. We intend to use the remaining net proceeds, if any, for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of any remaining net proceeds for these purposes, we intend to invest them generally in short-term, investment-grade, interest-bearing securities. Market factors may require our management to allocate portions of the proceeds for other purposes. Accordingly, you will be relying on the judgment of our management with regard to the use proceeds from the rights offering, and you will not have the opportunity, as part of your investment decision, to assess whether the proceeds are being used appropriately. It is possible that the proceeds will be invested in a way that does not yield a favorable, or any, return for us.

We may cancel the rights offering at any time prior to the expiration of the rights offering, and neither we nor the subscription agent will have any obligation to you except to return your subscription payments.

We may, in our sole discretion, decide to cancel the rights offering prior to the expiration of the rights offering. If the rights offering is cancelled, all subscription payments received by the subscription agent will be returned, without interest or deduction, as soon as practicable.

If you do not act promptly and follow the subscription instructions, your exercise of subscription rights will be rejected.

Stockholders wishing to purchase Units in the rights offering must act promptly to ensure that all required forms and payments are actually received by the subscription agent prior to the expiration of the rights offering at 5:00 p.m., Eastern Time, on []. If you are a beneficial owner of shares, you must act promptly to ensure that your broker, dealer, custodian bank or other nominee acts for you and that all required forms and payments are actually received by the subscription agent prior to the expiration of the subscription period. We are not responsible if your broker, dealer, custodian bank or nominee fails to ensure that all required forms and payments are actually received by the subscription agent prior to the expiration of the subscription period. If you fail to complete and sign the required subscription forms, send an incorrect payment amount or otherwise fail to follow the subscription procedures that apply to your exercise in the rights offering prior to the expiration of the subscription period, the subscription agent may, depending on the circumstances, reject your subscription or accept it only to the extent of the payment received.

Neither we nor the subscription agent will undertake to contact you concerning an incomplete or incorrect subscription form or payment, nor are we under any obligation to correct such forms or payment. We have the sole discretion to determine whether a subscription exercise properly complies with the subscription procedures.

You will not receive interest on subscription funds, including any funds ultimately returned to you.

You will not earn any interest on your subscription funds while they are being held by the subscription agent pending the closing of this rights offering. In addition, if we cancel the rights offering, or if you exercise your over-subscription privilege and are not allocated all of the Units for which you over-subscribe, neither we nor the subscription agent will have any obligation with respect to the subscription rights except to return, without interest, any subscription payments to you.

The shares purchased by you in this offering may be cashed out pursuant to the proposed 1-for-20 reverse stock split.

We have filed a proxy statement with the SEC in which, among other things, we are asking our stockholders to approve a 1-for-20 reverse stock split of our outstanding shares of common stock. A 1-for-20 reverse stock split reduces the number of shares outstanding: for example, if you own 1,000 shares prior to the 1-for-20 reverse split, you will own a total of 50 shares after the split. If approved by stockholders, our

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board of directors intends to implement the 1-for-20 reverse stock split immediately following the completion of this offering. In the 1-for-20 reverse stock split, our board of directors intends to cash out fractional shares at a price equal to the average closing sale price of shares of common stock for the ten trading days immediately prior to the date the 1-for-20 reverse stock split becomes effective, or, if no such sale takes place on such days, the average of the closing bid and ask prices for such days, in each case as officially reported by the OTC Bulletin Board, which we refer to as the cash out price. If the shares currently held by you and the shares purchased by you in this offering result in a fractional interest following the 1-for-20 reverse stock split, then such fractional interests will be cashed out at the cash out price, which may be less than or greater than the \$0.02 per Unit subscription price.

Our future capital needs could result in dilution of your investment.

Our board of directors may determine from time to time that we need to raise additional capital by issuing additional shares of our common stock or other securities. These issuances could dilute the ownership interests of purchasers of our securities in this offering and may dilute the per share book value of our common stock or other securities.

Investors in future stock offerings also may have rights, preferences and privileges that are senior to, and that adversely affect, our then current shareholders.

Risks Related to Our Common Stock and Warrants

There currently is a limited market for our common stock.

Our common stock is quoted on the Over-the-Counter, or OTC, Bulletin Board. Prior to January 22, 2009, our common stock was listed on the AMEX. Trading in our common stock on both AMEX and the OTC Bulletin Board has been very limited, which could affect the price of our stock. We have no plans, proposals, arrangements or understandings with any person with regard to the development of an active trading market for our common stock, and no assurance can be given that an active trading market will develop.

The prices at which shares of our common stock trade have been and will likely continue to be volatile.

Since January 1, 2008, our common stock has traded at prices ranging from a high of \$2.63 to a low of \$0.01 per share. Due to the lack of an active market for our common stock, you should expect the prices at which our common stock might trade to continue to be highly volatile. The expected volatile price of our stock will make it difficult to predict the value of your investment, to sell your shares at a profit at any given time, or to plan purchases and sales in advance. A variety of other factors might also affect the market price of our common stock. These include, but are not limited to:

- The action by the FDA on our 501(k) application for our hemodiafiltration system;
- achievement or rejection of regulatory approvals by our competitors or us;
- publicity regarding actual or potential clinical or regulatory results relating to products under development by our competitors or us;
- delays or failures in initiating, completing or analyzing clinical trials or the unsatisfactory design or results of these trials;
- announcements of technological innovations or new commercial products by our competitors or us;
- developments concerning proprietary rights, including patents;
- regulatory developments in the United States and foreign countries;

economic or other crises and other external factors;
period-to-period fluctuations in our results of operations;
changes in financial estimates by securities analysts; and
sales of our common stock.

We are not able to control many of these factors, and we believe that period-to-period comparisons of our financial results will not necessarily be indicative of our future performance.

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In addition, the stock market in general, and the market for biotechnology companies in particular, has experienced extreme price and volume fluctuations in recent years that might have been unrelated or disproportionate to the operating performance of individual companies. These broad market and industry factors might seriously harm the market price of our common stock, regardless of our operating performance.

The market price of our common stock may fall below the exercise price of the warrants issued in connection with the rights offering.

The warrants being issued in connection with the rights offering will be exercisable immediately upon issuance and will expire five years thereafter. The market price of our common stock may fall below the exercise price for these warrants prior to their expiration. Any warrants not exercised by their date of expiration will expire worthless and we will be under no further obligation to the holders of warrants.

There is no public market for the warrants to purchase common stock in this offering.

There is no established public trading market for the warrants included in the Units being offered in this offering, and we do not expect a market to develop. In addition, we do not intend to apply for quotation or listing of the warrants on the OTC Bulletin Board any securities exchange or market or on the OTC Bulletin Board. Without an active market, the liquidity of the warrants will be limited.

There can be no assurance that a market will ever develop for the warrants. Even if a market for the warrants does develop, the price of the warrants may fluctuate and liquidity may be limited. If a market for the warrants does not develop, then purchasers of the warrants may be unable to resell the warrants or sell them only at an unfavorable price for an extended period of time, if at all. Resale prices of the warrants will depend on many factors, including:

our operating performance and financial condition;
our ability to continue the effectiveness of the registration statement, of which this prospectus is a part, covering warrants and the common stock issuable upon exercise of the warrants;
the interest of securities dealers in making a market; and
the market for similar securities.

If an effective registration is not in place and a current prospectus is not available when an investor desires to exercise warrants, such investor may be unable to exercise his, her or its warrants, causing such warrants to expire worthless.

No warrant held by public stockholders will be exercisable and we will not be obligated to issue shares of common stock unless, at the time such holder seeks to exercise such warrant, we have a registration statement under the Securities Act in effect covering the shares of common stock issuable upon the exercise of the warrants and a current prospectus relating to the common stock. We intend to use our best efforts to keep a registration statement in effect covering shares of common stock issuable upon exercise of the warrants and to maintain a current prospectus relating to the common stock issuable upon exercise of the warrants until the expiration of the warrants. However, we cannot assure you that we will be able to do so, and if we do not maintain a current prospectus related to the common stock issuable upon exercise of the warrants, holders will be unable to exercise their warrants and we will not be required to settle any such warrant exercise. If the prospectus relating to the common stock issuable upon the exercise of the warrants is not current, the warrants held by public stockholders may have no value, we will have no obligation to

The market price of our common stock may fall below the exercise price of the warrants issued in connection with the

settle the warrants for cash, the market for such warrants may be limited, such warrants may expire worthless and, as a result, an investor may have paid the full price solely for the shares of common stock included in the Units.

An investor will only be able to exercise a warrant if the issuance of common stock upon such exercise has been registered or qualified or is deemed exempt under the securities laws of the state of residence of the holder of the warrants.

No warrants will be exercisable and we will not be obligated to issue shares of common stock unless the shares of common stock issuable upon such exercise have been registered or qualified or deemed to be exempt under the securities laws of the state of residence of the holder of the warrants. Because the exemptions from

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qualification in certain states for resales of warrants and for issuances of common stock by the issuer upon exercise of a warrant may be different, a warrant may be held by a holder in a state where an exemption is not available for issuance of common stock upon an exercise and the holder will be precluded from exercise of the warrant. As a result, the warrants may be deprived of any value, the market for the warrants may be limited, the holders of the warrants may not be able to exercise their warrants and they may expire worthless if the common stock issuable upon such exercise is not qualified or exempt from qualification in the jurisdictions in which the holders of the warrants reside.

We have never paid dividends and do not intend to pay cash dividends.

We have never paid dividends on our common stock and currently do not anticipate paying cash dividends on our common stock for the foreseeable future. Consequently, any returns on an investment in our common stock in the foreseeable future will have to come from an increase in the value of the stock itself. As noted above, the lack of an active trading market for our common stock will make it difficult to value and sell our common stock. While our dividend policy will be based on the operating results and capital needs of our business, it is anticipated that all earnings, if any, will be retained to finance our future operations.

Because we are subject to the penny stock rules, you may have difficulty in selling our common stock.

Our common stock is subject to regulations of the SEC relating to the market for penny stocks. Penny stock, as defined by the Penny Stock Reform Act, is any equity security not traded on a national securities exchange or quoted on any market of the NASDAQ Stock Market that has a market price of less than \$5.00 per share. The penny stock regulations generally require that a disclosure schedule explaining the penny stock market and the risks associated therewith be delivered to purchasers of penny stocks and impose various sales practice requirements on broker-dealers who sell penny stocks to persons other than established customers and accredited investors. The broker-dealer must make a suitability determination for each purchaser and receive the purchaser's written agreement prior to the sale. In addition, the broker-dealer must make certain mandated disclosures, including the actual sale or purchase price and actual bid offer quotations, as well as the compensation to be received by the broker-dealer and certain associated persons. The regulations applicable to penny stocks may severely affect the market liquidity for your common stock and could limit your ability to sell your securities in the secondary market.

Our fourth amended and restated certificate of incorporation, as amended, limits liability of our directors and officers, which could discourage you or other stockholders from bringing suits against our directors or officers in circumstances where you think they might otherwise be warranted.

Our fourth amended and restated certificate of incorporation, as amended, provides, with specific exceptions required by Delaware law, that our directors are not personally liable to us or our stockholders for monetary damages for any action or failure to take any action. In addition, we have agreed to, and our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws provide for, mandatory indemnification of directors and officers to the fullest extent permitted by Delaware law. These provisions may discourage stockholders from bringing suit against a director or officer for breach of duty and may reduce the likelihood of derivative litigation brought by stockholders on our behalf against any of our directors or officers.

An investor will only be able to exercise a warrant if the issuance of common stock upon such exercise has been reg

If and to the extent we are found liable in certain proceedings or our expenses related to those or other legal proceedings become significant, then our liquidity could be materially adversely affected and the value of our stockholders' interests in us could be impaired.

In April 2002, we entered into a letter agreement with Hermitage Capital Corporation (Hermitage), as selling agent, the stated term of which was from April 30, 2002 through September 30, 2004. As of February 2003, we entered into a settlement agreement with Hermitage pursuant to which, among other things: the letter agreement was terminated; the parties gave mutual releases relating to the letter agreement; and we agreed to issue Hermitage or its designees, upon the closing of certain transactions contemplated by a separate settlement agreement between us and Lancer Offshore, Inc., warrants exercisable until February 2006 to purchase an aggregate of 60,000 shares of common stock for \$2.50 per share (or 17,046 shares of our common stock for \$8.80 per share, if adjusted for the reverse stock split pursuant to the antidilution provisions

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of such warrant, as amended). Because Lancer Offshore, Inc. never satisfied the closing conditions and, consequently, a closing has not been held, we have not issued any warrants to Hermitage in connection with our settlement with them. In June 2004, Hermitage threatened to sue us for warrants it claims are due to it under its settlement agreement with us as well as a placement fee and additional warrants it claims are, or will be, owed in connection with our initial public offering completed on September 24, 2004, as compensation for allegedly introducing us to one of the underwriters. We had some discussions with Hermitage in the hopes of reaching an amicable resolution of any potential claims, most recently in January 2005. We have not heard from Hermitage since then.

If and to the extent we are found to have significant liability to Hermitage in any lawsuit Hermitage may bring against us, then our liquidity could be materially adversely affected and/or our stockholders could experience dilution in their investment in us and the value of our stockholders' interests in us could be impaired.

Several provisions of the Delaware General Corporation Law, our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws could discourage, delay or prevent a merger or acquisition, which could adversely affect the market price of our common stock.

Several provisions of the Delaware General Corporation Law, our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws could discourage, delay or prevent a merger or acquisition that stockholders may consider favorable, and the market price of our common stock could be reduced as a result. These provisions include:

authorizing our board of directors to issue blank check preferred stock without stockholder approval;
providing for a classified board of directors with staggered, three-year terms;
prohibiting us from engaging in a business combination with an interested stockholder for a period of three years after the date of the transaction in which the person became an interested stockholder unless certain provisions are met;
prohibiting cumulative voting in the election of directors;
limiting the persons who may call special meetings of stockholders; and
establishing advance notice requirements for nominations for election to our board of directors or for proposing matters that can be acted on by stockholders at stockholder meetings.

As a relatively new company with little or no name recognition and with several risks and uncertainties that could impair our business operations, we are not likely to generate widespread interest in our common stock. Without widespread interest in our common stock, our common stock price may be highly volatile and an investment in our common stock could decline in value.

Unlike many companies with publicly traded securities, we have little or no name recognition in the investment community. We are a relatively new company and very few investors are familiar with either our company or our products. We do not have an active trading market in our common stock, and one might never develop, or if it does develop, might not continue.

Additionally, the market price of our common stock may fluctuate significantly in response to many factors, many of which are beyond our control. Risks and uncertainties, including those described elsewhere in this Certain Risks and Uncertainties section could impair our business operations or otherwise cause our operating results or prospects to be

Several provisions of the Delaware General Corporation Law, our fourth amended and restated certificate of incorporation

below expectations of investors and market analysts, which could adversely affect the market price of our common stock. As a result, investors in our common stock may not be able to resell their shares at or above their purchase price and could lose a portion or all of their investment.

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Securities class action litigation is often brought against public companies following periods of volatility in the market price of such company's securities. As a result, we may become subject to this type of litigation in the future. Litigation of this type could be extremely expensive and divert management's attention and resources from running our company.

If we fail to maintain an effective system of internal controls over financial reporting, we may not be able to accurately report our financial results, which could have a material adverse effect on our business, financial condition and the market value of our securities.

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports. If we cannot provide reliable financial reports, our reputation and operating results may be harmed.

As of December 31, 2007, management reported a material weakness in our internal control over financial reporting due to an insufficient number of resources in the accounting and finance department that does not allow for a thorough review process. Throughout fiscal year 2008, we implemented the following measures which resulted in the remediation of this material weakness as of December 31, 2008:

Developed procedures to implement a formal quarterly closing calendar and process and held quarterly meetings to address the quarterly closing process;

Established a detailed timeline for review and completion of financial reports to be included in our Forms 10-Q and 10-K;

Enhanced the level of service provided by outside accounting service providers to further support and provide additional resources for internal preparation and review of financial reports and supplemented our internal staff in accounting and related areas; and

Employed the use of appropriate supplemental SEC and U.S. GAAP checklists in connection with our closing process and the preparation of our Forms 10-Q and 10-K.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain statements in this prospectus constitute forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995. The words or phrases "can be," "may," "could," "would," "expects," "seeks," "estimates," "projects" and similar words and phrases are intended to identify such forward-looking statements.

These forward-looking statements may include, among other things, statements concerning the expectations of Nephros regarding its business, growth prospects, revenue trends, operating costs, working capital requirements, competition, results of operations, and other statements of expectations, beliefs, future plans and strategies, anticipated events or trends, and similar expressions concerning matters that are not historical facts. Such forward-looking statements are subject to various known and unknown risks and uncertainties, including those described on the preceding pages, and we caution you that any forward-looking information provided by or on behalf of us is not a guarantee of future performance. Our actual results could differ materially from those anticipated by such forward-looking statements due to a number of factors, some of which are beyond our control. All such forward-looking statements are current only as of the date on which such statements were made. Unless required by law, we do not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

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USE OF PROCEEDS

Assuming all the Units offered are sold, the gross proceeds from the rights offering and under the purchase agreement with Lambda Investors will be \$3,500,000, with net proceeds, after deducting estimated offering expenses of \$200,000, of approximately \$3,300,000. We are conducting the rights offering in part to raise capital for our operations. Without additional capital, we currently anticipate that we will not be able to continue our operations beyond February 2011.

We are obligated to use proceeds from the rights offering to repay the \$500,000 loan from Lambda Investors, plus all accrued interest thereon, as well as an 8% sourcing/transaction fee (\$40,000) and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the loan and the rights offering. We intend to use the remaining net proceeds, if any, for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of any remaining net proceeds for these purposes, we intend to invest them generally in short-term, investment-grade, interest-bearing securities.

Our management will retain broad discretion in the allocation of the net proceeds of this offering.

DETERMINATION OF OFFERING PRICE

As a condition to making the loan, Lambda Investors required that we undertake a rights offering to raise additional funds to meet our ongoing financial requirements and to repay the loan. In its loan proposal, Lambda Investors specified a rights offering of 175,000,000 Units consisting of shares and warrants to purchase shares of our common stock, and that it be made at a subscription price of \$0.02 per Unit to encourage our other stockholders to participate. The loan and the rights offering, as proposed by Lambda Investors, including the \$0.02 per Unit subscription price, were approved by a special committee of our independent directors (none of whom are affiliated with Lambda Investors) after consideration of the financing alternatives available to us. In an effort to minimize the dilutive effect of the rights offering, Lambda Investors proposed that it would surrender for cancellation a portion of its existing warrants containing anti-dilution provisions that will be triggered by the rights offering. The number of shares underlying such cancelled warrants would equal the total number of shares underlying the warrants to be issued in the rights offering. The special committee considered, among other things, that (i) we are not currently in a position to attract an outside investor or investors with a stock offering at a more favorable discount to the current trading price of our stock, and (ii) even if we were able to make such an offering, without any inducement for Lambda Investors to surrender for cancellation a portion of its existing warrants as it has agreed to do in the rights offering, the dilution suffered by current investors would have been approximately equal to or greater than the dilution that participating investors will be subject to in the rights offering. See **The Rights Offering Dilution**.

The \$0.02 per Unit subscription price was not based on any discount to the market price of our common stock. The subscription price is not necessarily related to our book value, net worth or any other established criteria of value and may or may not be considered the fair value of our common stock included in the Units being offered in the rights offering. We did not consult with any financial or other advisor in determining the subscription price. After the date of this prospectus, our common stock may trade at prices above or below the subscription price. The subscription price does not necessarily bear any relationship to any established criteria for value. You should not consider the subscription price as an indication of value of our company or our common stock. You should not assume or expect that, after the rights offering, our shares of common stock will trade at or above the subscription price in any given time period. The market price of our common stock may decline during or after the rights offering, and you may not

be able to sell the shares of our common stock purchased during the rights offering at a price equal to or greater than the subscription price. You should obtain a current quote for our common stock before exercising your subscription rights and make your own assessment of our business and financial condition, our prospects for the future, and the terms of this rights offering. On December 17, 2010, the closing sale price of our common stock on the OTC Bulletin Board was \$0.11 per share.

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DILUTION

If you invest in our common stock in this offering, your ownership interest will be diluted to the extent of the difference between the \$0.02 offering price per Unit and the pro forma net tangible book value per share. Our historical net tangible book value as of September 30, 2010 was approximately \$798,000, or approximately \$0.02 per share. Historical net tangible book value per share is determined by dividing our net tangible book value by the actual number of outstanding shares of common stock. Dilution in historical net tangible book value per share represents the difference between the amount per share paid by the purchaser of shares of common stock in this offering and the pro forma net tangible book value per share of common stock immediately after the closing of this offering.

After giving effect to the assumed sale of 175,000,000 Units in the rights offering and under the purchase agreement with Lambda Investors, with an offering price of \$0.02 per Unit, but excluding any issuance of shares of common stock to holders of warrants issued as part of the Units, and after deducting estimated offering expenses payable by us of \$200,000, our pro forma net tangible book value as of September 30, 2010 would have been approximately \$4,138,000, or \$0.02 per share of common stock. This would represent no dilution in pro forma net tangible book value per share to our stockholders for their existing shares or for the Units they purchase in this offering.

The shares outstanding as of September 30, 2010 used to calculate the information in this section exclude the following items:

893,282 shares issuable upon the exercise of stock options outstanding on September 30, 2010; and
8,191,827 shares issuable upon the exercise of warrants outstanding on September 30, 2010.

DIVIDEND POLICY

We do not anticipate paying any dividends on our common stock in the foreseeable future. We expect to retain future earnings, if any, for use in our development activities and the operation of our business. The payment of any future dividends will be subject to the discretion of our board of directors and will depend, among other things, upon our results of operations, financial condition, cash requirements, prospects and other factors that our board of directors may deem relevant. Additionally, our ability to pay future dividends may be restricted by the terms of any debt financing, tax considerations and applicable law.

CAPITALIZATION

The following table sets forth our historical, pro forma and pro forma as adjusted cash and cash equivalents and capitalization as of September 30, 2010. The pro forma and pro forma as adjusted information gives effect to as assumed \$3,500,000 equity raise from this rights offering.

For purposes of this table, we have assumed that the rights offering is fully subscribed, resulting in \$3,500,000 in gross proceeds. However, it is not possible to predict how many Units will be subscribed for in this rights offering, and therefore, how much gross proceeds will actually be raised.

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This table should be read in conjunction with our consolidated financial statements and the notes thereto included in this prospectus.

	September 30, 2010		
	Actual	Pro Forma ⁽¹⁾	Pro Forma as Adjusted ⁽²⁾
	(Dollars in Thousands)		
Cash and cash equivalents	\$421	\$3,721	\$3,644
Accounts payable and accrued expenses	\$884	\$1,134	\$1,134
Promissory note ⁽³⁾		500	500
Total liabilities	\$884	\$1,634	\$1,634
Stockholders' equity:			
Preferred stock, \$0.001 par value: 5,000,000 shares authorized on an actual, pro forma and pro forma as adjusted basis; no shares issued and outstanding on an actual, pro forma and pro forma as adjusted basis			
Common stock, \$0.001 par value: 90,000,000, 900,000,000 and 90,000,000 shares authorized on an actual, pro forma and pro forma as adjusted basis; 41,811,048, 216,811,048 and 10,840,52 shares issued and outstanding on an actual, pro forma and pro forma as adjusted basis ⁽⁴⁾	42	217	11
Additional paid-in capital	91,957	95,282	95,488
Deficit accumulated during the development stage	(91,201)	(91,201)	(91,201)
Total stockholders' equity	798	4,298	4,298
Total capitalization	\$1,682	\$5,932	\$5,932

Gives pro forma effect to \$3,500,000 of gross proceeds from the rights offering, less \$200,000 of offering costs, (1) and the proposed amendment of our certificate of incorporation to increase the authorized shares of our common stock from 90,000,000 to 900,000,000 shares we intend to effect prior to the rights offering.

Gives pro forma effect to the events set forth in (1) above, as adjusted for the 1-for-20 reverse stock split and the (2) concurrent amendment of our certificate of incorporation to decrease the authorized shares of our common stock from 900,000,000 to 90,000,000 shares we intend to effect immediately after completion of the rights offering.

We are obligated to use proceeds of the rights offering to prepay all amounts due under this note. See Use of (3) Proceeds.

In addition to the issued shares as disclosed above, as of September 30, 2010, we had 9,085,109, 375,791,391 and (4) 18,789,569 shares of common stock issuable upon exercise of outstanding warrants and options on an actual, pro forma and pro forma as adjusted basis, respectively.

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TABLE OF CONTENTS**MARKET FOR OUR COMMON STOCK**

On January 22, 2009 the AMEX removed our common stock from trading on the AMEX. Until such date, our common stock had been trading on the AMEX under the symbol NEP. Effective February 4, 2009, our common stock is now quoted on the OTC Bulletin Board under the symbol NEPH. The following table sets forth the high and low sales prices for our common stock as reported on the AMEX and the high and low bid and ask prices for our common stock as reported on AMEX or the Over the Counter Bulletin Board for each quarter listed.

Quarter Ended	High	Low
March 31, 2008	\$ 1.60	\$.33
June 30, 2008	\$.97	\$.50
September 30, 2008	\$.65	\$.24
December 31, 2008	\$.48	\$.05
March 31, 2009	\$.15	\$.04
June 30, 2009	\$ 1.77	\$.01
September 30, 2009	\$ 2.63	\$.99
December 31, 2009	\$ 1.75	\$.70
March 31, 2010	\$ 1.30	\$.65
June 30, 2010	\$ 1.14	\$.36
September 30, 2010	\$.48	\$.16
From October 1, 2010 to December 17, 2010	\$.23	\$.11

As of December 16, 2010, there were 35 holders of record and approximately 900 beneficial holders of our common stock.

On December 17, 2010, the last reported sale price of our common stock on the OTC Bulletin Board was \$0.11 per share.

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THE RIGHTS OFFERING

Background of the Rights Offering

Need for Capital

At September 30, 2010, we had cash and cash equivalents totaling approximately \$421,000 and tangible assets of approximately \$1,682,000. At that time, we estimated that these funds would allow us to keep operating into the fourth quarter of 2010. We expect that the \$500,000 we raised in September 2010 through the issuance of the note to Lambda Investors will allow us to operate into February 2011. We must seek and obtain additional financing to fund our operations. For the past two years, we have significantly reduced expenses while attempting to properly capitalize our company.

Fundraising Activities and Impact on Our Stockholders

We raised \$1,250,000 in a private placement in July 2009 at a purchase price which did not trigger the anti-dilution provisions of any of our outstanding warrants. Since then we have been actively attempting to raise additional funding without success. The departure of our Chief Executive Officer in late March 2010 significantly impaired our fundraising abilities. In addition, the quotation of our stock on the OTC Bulletin Board rather than AMEX, as it was previously, our lack of a permanent Chief Executive Officer, the continued lack of a response from the FDA on our 510(k) application for our hemodiafiltration, or HDF, system and our declining stock price presented significant challenges to fundraising. Given these facts, we were advised by the investment banking firm we had engaged, Dawson James Securities, Inc., that the terms on which we could potentially attract investors would likely require a significant discount to the trading price, a significant warrant component and other unfavorable terms. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our HDF system. The receipt of this letter had a detrimental impact on our ongoing capital raising efforts. As a result, we determined, in consultation with Dawson James, that raising capital through conventional sources was no longer feasible. We subsequently terminated our engagement of Dawson James on September 16, 2010.

We considered the unfavorable terms we might be required to agree to in order to raise capital from third party investors against our need for capital and our current stockholders' interests. We were concerned that even if there was an available option to raise a small amount of capital, it would trigger the anti-dilution provisions of certain of our existing warrants to the detriment of most of our stockholders, who would not be participating in the financing, and yet not provide us with sufficient funds to advance our business plan in any meaningful way.

At present we have an immediate need for capital. For all of the reasons stated above, we have no other alternative for financing in the immediate term in which it is required. If we do not raise capital through the rights offering, we will need to initiate wind down proceedings, and our common stockholders most likely would receive nothing in a bankruptcy.

We believe the rights offering provides several benefits to our stockholders:

the Lambda Investors loan provides us with the immediate funds we need to continue our business and affords us the time needed to raise additional funds through the rights offering;

the rights offering allows all of our stockholders to participate on terms that would not otherwise be available to many of them;

Lambda Investors is making a significant concession with regard to its agreement to surrender a portion of its existing warrants upon completion of the rights offering to the direct benefit of our stockholders; and

Lambda Investors is committing to purchase through a private placement 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering.

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We believe that stockholders who participate fully in the rights offering will suffer less dilution than they would likely experience in alternative financings. Stockholders who do not participate in the rights offering will suffer substantial dilution. See Dilution.

Loan from Lambda Investors

We carefully considered our capital needs and the short time that our cash would allow us to continue operations. Given the imminent shortage of funds and our inability to complete any alternative financing within the necessary time, a special committee of our independent directors (none of whom are affiliated with Lambda Investors) requested that our largest investor, Lambda Investors, loan us funds and propose a means for capitalizing our company.

On October 1, 2010, Lambda Investors loaned us \$500,000 pursuant to a secured promissory note. The note bears interest at the rate of 12% per annum and matures on April 1, 2011, at which time all principal and accrued interest will be due. However, we have agreed to prepay amounts due under the note out of any cash proceeds from the rights offering, or any other equity or debt financing, or the sale of any assets outside the ordinary course of business, in each case prior to the maturity date. If we do not pay the principal and interest under the note when due, the interest rate increases to 16% per annum. We may prepay the note without penalty at any time.

The note is secured by a first priority lien on all of our assets, including our intellectual property, inventions, work in process and any other property.

As long as indebtedness remains outstanding under the note, we will be subject to certain covenants which, among other things, restrict our ability to merge with another company, sell a material amount of our assets, incur any additional indebtedness, repay any existing indebtedness, or declare or pay any dividends in cash, property or securities.

Lambda Investors is entitled to an 8% sourcing/transaction fee (\$40,000) in respect of the note and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the note and the rights offering. The legal fees will be paid upon the closing of the rights offering or, in the case of fees and expenses relating to the note, upon the maturity of the note, if earlier.

Purchase Agreement with Lambda Investors

As required under the terms of the note, we are conducting this rights offering to raise up to \$3,500,000 from our existing stockholders. Lambda Investors has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. Lambda Investors is not receiving any compensation for its purchase commitment.

Any Units purchased by Lambda Investors and the shares and warrants to purchase shares of our common stock underlying them are not being registered pursuant to the registration statement of which this prospectus is a part, and

thus may not be offered or sold except pursuant to an effective registration statement under, or an exemption from the registration requirements of, the Securities Act of 1933, as amended. See Plan of Distribution. We will enter into a registration rights agreement with Lambda Investors in connection with the rights offering. The registration rights agreement will cover the shares of our common stock (including shares issuable upon exercise of warrants) underlying any Units sold under the purchase agreement with Lambda Investors. See Certain Relationships and Related Transactions for a description of the registration rights agreement with Lambda Investors.

A copy of the purchase agreement and the registration rights agreement with Lambda Investors have been filed as exhibits to the registration statement of which this prospectus is a part.

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In addition, Lambda Investors has agreed to surrender for cancellation a portion of its existing warrants containing anti-dilution provisions that will be triggered by the rights offering. The number of shares underlying such cancelled warrants would equal the total number of shares underlying the warrants to be issued in the rights offering and under the purchase agreement with Lambda Investors. Further, the term of Lambda Investors' existing warrants that will remain outstanding following the completion of the rights offering will be amended so that such warrants will expire at the same time as the warrants issued in the rights offering, which will have a five-year term.

Lambda Investors is our largest stockholder and as of November 30, 2010 beneficially owns approximately 43.9% of our outstanding common stock (which includes warrants to purchase an aggregate of 7,190,811 shares of our common stock). The warrants held by Lambda Investors have an exercise price of \$0.90 per share and contain full-ratchet anti-dilution provisions (see Dilution below). The shares beneficially owned by Lambda Investors may be deemed beneficially owned by Wexford Capital LP, which is the managing member of Lambda Investors. Arthur Amron, one of our directors, is a partner and general counsel of Wexford Capital. Paul A. Mieyal, another of our directors and Acting Chief Executive Officer, is a vice president of Wexford Capital.

Our Business Prospects

We have applied to the FDA for approval to sell our hemodiafiltration system in the United States. On June 30, 2010, we received a letter from the FDA which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration system. We had an in-person meeting with the FDA on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

Our hemodiafiltration system and related products are approved for marketing in Europe and Canada. Currently, our hemodiafiltration products are sold and distributed throughout Europe and are being used in over 50 clinics in Europe.

Our OLpur HD 190 high-flux dialyzer cartridge, designed for use with either hemodialysis or hemodiafiltration machines, received FDA approval in June 2005.

Also, our Dual Stage Ultrafilter, or DSU, water filtration system was approved by the FDA in July 2009 to be used to filter biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures. Our goal for the DSU is to expand distribution to the hospital market and identify other short term applications. In July 2010, AmeriWater Corporation adopted the DSU as a standard component of its MRO portable reverse osmosis water treatment systems for dialysis.

In March 2010, we entered into a development agreement with STERIS Corporation whereby STERIS and we are jointly developing filtration-based products for medical device applications.

Finally, pursuant to a contract with the Office of Naval Research, we are working on the development of a potable dual-stage military water purifying filter as part of a Marine Corps Advanced Technology Demonstration project.

Reasons for the Rights Offering

As a condition to making the loan, Lambda Investors required that we undertake a rights offering to raise additional funds to meet our ongoing financial requirements and to repay the loan. In its loan proposal, Lambda Investors specified a rights offering of 175,000,000 Units consisting of shares and warrants to purchase shares of our common

stock, and that it be made at a subscription price of \$0.02 per Unit to encourage our other stockholders to participate. A special committee of our independent directors (none of whom are affiliated with Lambda Investors) approved the loan and the rights offering after carefully evaluating our imminent need for additional capital. The special committee considered alternative capital raising methods that could be available to us and analyzed, among other things, the low likelihood of effecting another form of financing, as well as the length of time necessary to complete any such alternative financings. It also considered the costs and expenses associated with alternative financings. In conducting its analysis, a key

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factor considered by the special committee was the importance of reducing dilution to our existing stockholders. The special committee also considered the dilution that would be caused by the rights offering as well as by alternative financings.

The special committee believes that the rights offering provides the least dilutive alternative to our existing stockholders. An equity financing, whether public or private, would dilute existing stockholders because such an offering would likely include only a few of our existing stockholders, if any. The rights offering affords each of our existing stockholders the ability to protect, though not fully preserve, his or her ownership percentage. In addition, the sales price in any alternative financing most likely would be at a discount to market price. On December 17, 2010, the closing price of our common stock as reported on the OTC Bulletin Board, was \$0.11 per share. We have issued and outstanding warrants to purchase an aggregate of 7,519,246 shares that contain full-ratchet anti-dilution provisions. In the event we sell any equity security or security convertible into equity security at a purchase price less than the \$0.90 exercise price of these warrants, the exercise price of the warrants would automatically adjust to the same price as that paid in the financing and the number of shares underlying these warrants would automatically be increased so that the aggregate exercise price of the warrant remains the same as in effect prior to the financing. Most recently, our stock price has traded below \$0.90 per share from time to time since the fourth quarter of 2009 and continuously since May 3, 2010. Given our current stock price, any alternative financing would be effected at a purchase price below \$0.90 per share, which would trigger the full-ratchet anti-dilution provisions in these warrants, resulting in a significant increase in the number of shares underlying them. Any such significant increase in the number of shares underlying our outstanding warrants by operation of these full-ratchet anti-dilution provisions would have a significantly dilutive effect on our existing stockholders and would present a disincentive for outside sources of capital to purchase our equity, as Lambda Investors, which holds over 95% of these warrants, would not cancel any of its warrants under an alternative transaction to the rights offering. Lambda Investors has agreed to surrender for cancellation warrants (after giving effect to the anti-dilution provisions contained therein that will be triggered by the rights offering) to purchase a number of shares equal to the total number of shares underlying the warrants to be issued as part of the Units, upon completion of the rights offering and the private placement of Units with Lambda Investors, which, in terms of dilution, is to the benefit of our stockholders.

Proposed Reverse Stock Split

If the rights offering is completed, we intend to effect a 1-for-20 reverse stock split immediately after the completion of the rights offering. We will ask our stockholders to approve a proposal to effect the reverse stock split at our upcoming annual meeting of stockholders. In the 1-for-20 reverse stock split, we will cash out fractional shares at a price equal to the average closing sale price of shares of common stock for the ten trading days immediately prior to the date the 1-for-20 reverse stock split becomes effective, or, if no such sale takes place on such days, the average of the closing bid and ask prices for such days, in each case as officially reported by the OTC Bulletin Board, which we refer to as the cash out price. If the shares currently held by you and the shares purchased by you in this rights offering result in a fractional interest following the 1-for-20 reverse stock split, then such fractional interests will be cashed out at the cash out price, which may be less than or greater than the \$0.02 per Unit subscription price.

Dilution

Our commitment to undertake the rights offering was a condition of the loan provided to us by Lambda Investors on September 29, 2010. The terms of the rights offering are intended to minimize dilution to those of our existing stockholders who participate in the rights offering when compared to other potential equity offerings, given that, in connection with and following the completion of the rights offering, Lambda Investors will surrender for cancellation warrants (after giving effect to the anti-dilution provisions contained therein that will be triggered by the rights

offering) to purchase a number of shares equal to the total number of shares underlying the warrants to be issued in the rights offering. Assuming the rights offering is fully subscribed, warrants to purchase an aggregate of 161,793,248 shares would be issued and Lambda Investors would surrender existing warrants for the same number of shares. If Lambda Investors purchases 60,194,226 Units, but makes no additional purchase of Units, Lambda Investors would be issued warrants to purchase 55,651,538 shares of our common stock as part of the Units. The term of the remaining
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warrants will be extended so that such warrants will expire at the same time as the warrants issued in the rights offering, which will have a five-year term.

Set forth below are certain historical and alternative pro forma dilution calculations, based on the following assumptions:

a fully subscribed \$3,500,000 rights offering of 175,000,000 shares with a purchase price of \$0.02 per share, with no warrants issued in the offering and no surrender of warrants by Lambda Investors;
the \$3,500,000 rights offering we are undertaking pursuant to this prospectus of 175,000,000 Units, each consisting of one share of our common stock and a warrant to purchase 0.924532845 shares of common stock, at a subscription price of \$0.02 per unit, and the surrender by Lambda Investors of warrants exercisable for a number of shares equal to the number of shares underlying the warrants to be issued as part of the Units;
a stockholder who owns 1% of our outstanding shares of common stock and exercises its basic subscription privilege in full; and
a stockholder who owns 1% of our outstanding shares of common stock and does not participate in the rights offering.

	As of November 30, 2010	Pro Forma Assuming Rights Offering of 175,000,000 Shares at \$0.02 Per Share and No Surrender of Lambda Warrants ⁽¹⁾	Pro Forma Assuming Rights Offering of 175,000,000 Units at \$0.02 Per Unit and Surrender of Lambda Warrants ⁽²⁾
Shares common stock outstanding	41,811,048	216,811,048	216,811,048
Shares issuable pursuant to options	893,282	893,282	893,282
Shares issuable pursuant to non-Lambda warrants ⁽³⁾	1,001,016	14,194,250	120,335,959
Shares issuable pursuant to Lambda warrants	7,190,811	323,586,495	217,444,786
Total Shares	52,885,511	555,485,075	555,485,075
Beneficial ownership of hypothetical stockholder who owns 1% of our common stock and fully participates in rights offering	528,855 (1.0%)	2,742,375 (0.49%)	3,231,318 (0.58%)
Beneficial ownership of hypothetical stockholder who owns 1% of our common stock and does not participate in rights offerings	528,855 (1.0%)	528,855 (0.09%)	528,855 (0.09%)

(1) Assumes no warrants are issued in the rights offering.

(2) Assumes Lambda Investors will surrender for cancellation warrants to purchase 161,793,248 shares of our common stock, which will equal the number of shares underlying warrants that will be issued as part of the Units. Also assumes Lambda Investors purchases 60,194,226 Units.

(3) Includes warrants to purchase shares of our common stock held by investors other than Lambda Investors which contain full-ratchet anti-dilution provisions triggered by the rights offerings.

We also considered, hypothetically, the dilutive effect to our stockholders of a \$3,500,000 equity financing with outside investors at various discounts to our stock price and warrants issued to the new investors and concluded that while it was highly unlikely that we could find investors who would be interested in such a transaction, if we could find investors for such a financing, the dilutive effect would be greater than that of the rights offering we are undertaking pursuant to this prospectus.

After weighing the factors discussed above and the effect of the rights offering of generating \$3,500,000 in gross proceeds (before expenses), assuming the rights offering is fully subscribed, as additional capital for us, we believe that the rights offering is the best alternative to raise capital and is in the best interests of our company and our stockholders. We believe that the rights offering will strengthen our financial condition

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through generating additional cash, while potentially minimizing dilution to our existing stockholders. However, our board of directors is not making any recommendation as to whether you should exercise your subscription rights.

The Subscription Rights

We are distributing to holders of our common stock, at no charge, one non-transferable subscription right for each share of our common stock owned as of 5:00 p.m., Eastern Time, on the record date, either as a holder of record or, in the case of shares held of record by brokers, dealers, custodian banks or other nominees on a stockholder's behalf, as a beneficial owner of such shares. Each subscription right entitles you to purchase, at a subscription price of \$0.02 per Unit, 4.185496618 Units, each consisting of one share of our common stock and a warrant to purchase 0.924532845 shares of our common stock at an exercise price of \$0.02 per share for a period of five years following the closing of the rights offering.

Basic Subscription Privilege

For each share that you own, you will have a basic subscription privilege to buy from us 4.185496618 Units at a subscription price of \$0.02 per Unit. You may exercise your basic subscription privilege for some or all of your rights, or you may choose not to exercise your rights. If you choose to exercise your rights, there is no minimum number of Units you must purchase, but you may not purchase fractional Units. To determine the number of Units you may purchase under your basic subscription privilege, multiply the number of shares of our common stock you own by 4.185496618 and round down to the nearest whole number. For example, if you own 100 shares of our common stock, you will be entitled to subscribe for up to 418 Units ($100 \text{ shares} \times 4.185496618 = 418.5496618$, rounded down to 418, the nearest whole number) under your basic subscription privilege. Similarly, the warrant to purchase 0.92453 shares of our common stock included with each Unit you purchase will only be exercisable for a number of shares rounded down to the nearest whole number. For example, if you purchase 418 Units, the warrants included with those Units would be exercisable for up to 386 shares ($418 \text{ Units} \times 0.924532845 = 386.4547292$, rounded down to 386, the nearest whole number).

Over-Subscription Privilege

If you exercise your basic subscription privilege in full, you may also exercise an over-subscription privilege to subscribe for additional Units not subscribed for by other rights holders in the offering at the same subscription price of \$0.02 per Unit. If an insufficient number of Units is available to fully satisfy all over-subscription privilege requests, the available Units will be allocated proportionately among rights holders who exercise their over-subscription privileges based on the number of Units each such holder subscribed for under the basic subscription privilege. The subscription agent will return any excess payments by mail without interest or deduction promptly after expiration of the subscription period.

Effects of Rights Offering and Purchase of Units by Lambda Investors on Ownership of Certain Beneficial Owners and Management

The following table sets forth information regarding the beneficial ownership of our common stock as of November, 30 2010 by (i) each person known to us to own beneficially more than 5% of our common stock, based on any such person's or entity's filings with the SEC as of that date, (ii) each director and executive officer and (iii) all directors and

executive officers as a group, and the potential effects of the rights offering on these parties and their beneficial ownership of our common stock.

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The information provided in the table below is based on our records, information filed with the SEC and information provided to us, except where otherwise noted.

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership before Rights Offering	Percentage of class ⁽¹⁾	Amount of Beneficial Ownership after Rights Offering ⁽²⁾	Amount of Beneficial Ownership after 1-for-20 Reverse Stock Split	Percentage of class ⁽³⁾
Lambda Investors LLC ⁽⁴⁾	21,572,432	43.9 %	292,020,633	14,601,031	67.2 %
Stagg Capital Group LLC ⁽⁵⁾	3,759,558	8.9 %	22,501,436	1,125,071	9.4 %
Arthur H. Amron ⁽⁶⁾	21,667	*	112,354	5,617	*
Lawrence J. Centella ⁽⁷⁾	41,667	*	216,064	10,803	*
Gerald J. Kochanski ⁽⁸⁾	131,250	*	680,596	34,029	*
Paul A. Mieyal ⁽⁹⁾	21,667	*	112,354	5,617	*
James S. Scibetta ⁽¹⁰⁾	40,834	*	211,744	10,857	*
All executive officers and directors as a group ^{(4) (10)}	257,085	*	1,333,113	66,655	*

* Represents less than 1% of the outstanding shares of our common stock.

(1) Applicable percentage ownership is based on 41,811,048 shares of common stock outstanding as of November 30, 2010, together with applicable options and warrants for each stockholder. Beneficial ownership is determined in accordance with the rules of the SEC, based on factors including voting and investment power with respect to shares. Common stock subject to options and warrants exercisable on or within 60 days after November 30, 2010 are deemed outstanding for the purpose of computing the percentage ownership of the person holding those options or warrants, but not for computing the percentage ownership of any other person.

(2) Assumes all 175,000,000 Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold, the cancellation of Lambda Investors existing warrants to purchase 161,793,248 shares of common stock and that the named stockholders exercise their basic subscription privileges, and in lieu of exercising its basic subscription privilege, Lambda Investors purchases an equivalent number of Units through a private placement.

(3) Assumes 175,000,000 Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold and that the named stockholders exercise their basic subscription privileges, and in lieu of exercising its basic subscription privilege, Lambda Investors purchases an equivalent number of Units through a private placement. Applicable percentage ownership is based on 10,840,552 shares of common stock outstanding upon completion of the rights offering and after giving effect to the proposed 1-for-20 reverse stock split. Beneficial ownership is determined in accordance with the rules of the SEC, based on factors including voting and investment power with respect to shares. Common stock subject to options and warrants exercisable on or within 60 days after the estimated date for the completion of the rights offering are deemed outstanding for the purpose of computing the percentage ownership of the person holding those options or warrants, but not for computing the percentage ownership of any other person.

(4) Based in part on information provided in Schedule 13D/A filed on February 12, 2010. The shares beneficially owned by Lambda Investors may be deemed beneficially owned by Wexford Capital LP, which is the managing member of Lambda Investors, by Charles E. Davidson in his capacity as chairman and managing member of Wexford Capital LP and by Joseph M. Jacobs in his capacity as president and managing member of Wexford Capital LP. The address of each of Lambda Investors, Wexford Capital LP, Mr. Davidson and Mr. Jacobs is c/o

Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. Each of Wexford Capital LP, Mr. Davidson and Mr. Jacobs disclaims beneficial ownership of the shares of our common stock owned by Lambda Investors except, in the case of Mr. Davidson and Mr. Jacobs, to the extent of their respective interests in each member of Lambda Investors. Includes 7,190,811 shares issuable on or prior to November 14, 2012 upon exercise of warrants held by Lambda Investors having an exercise price of \$0.90 per share. These warrants contain a full-ratchet anti-dilution provision which provides that if the per share price of the common stock contained in each unit offered by this prospectus is less than the warrant's current exercise price (i) the exercise price of the warrant will be reduced to the per share price of the shares in each unit and (ii) the number of shares covered by the warrant will be increased to an amount derived by multiplying the number of shares

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covered by the warrant by (x) the per share exercise price in effect before the completion of the offering divided by (y) the new exercise price (which will be the per share price of each share contained in a unit). Lambda Investors is controlled by Wexford Capital LP. Arthur H. Amron, one of our directors, is a partner and General Counsel of Wexford Capital LP. Paul A. Mieyal, our Acting Chief Executive Officer and one of our directors, is a Vice President of Wexford Capital LP.

(5) Based in part on information provided in Schedule 13D/A filed with the SEC on August 21, 2008. Stagg Capital Group, LLC (Stagg Capital) serves as the investment advisor to an investment fund that holds the shares and Scott A. Stagg is the managing member of StaggCapital. By reason of such relationships, Stagg Capital and Mr. Stagg may be deemed to be indirect beneficial owners of the shares.

(6) Mr. Amron s address is c/o Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. The shares identified as being beneficially owned by Mr. Amron consist of 21,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(7) Mr. Centella s address is the Company address. The shares identified as being beneficially owned by Mr. Centella include 41,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(8) Mr. Kochanski s address is the Company address. The shares identified as being beneficially owned by Mr. Kochanski consist of 131,250 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 219,320 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(9) Mr. Mieyal s address is c/o Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. The shares identified as being beneficially owned by Mr. Mieyal consist of 21,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(10) Mr. Scibetta s address is the Company address. The shares identified as being beneficially owned by Mr. Scibetta consist of 40,834 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 21,666 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

Expiration of Rights Offering and Extensions, Amendments and Termination

You may exercise your subscription rights at any time prior to 5:00 p.m., Eastern Time, on [], the expiration date for the rights offering, subject to extension or earlier termination at our sole discretion. If you do not exercise your subscription rights before the expiration date of the rights offering, your subscription rights will expire and will have no value. We will not be required to issue Units to you if the subscription agent receives your rights certificate or payment after the expiration date, regardless of when you sent the rights certificate and payment, unless you send the documents in compliance with the guaranteed delivery procedures described under Guaranteed Delivery Procedures below.

We may extend the expiration date at any time. If the rights offering is extended, subscriptions received prior to such extension will remain irrevocable. We may choose to extend the rights offering for any reason. For example, we may decide that changes in the market price of our common stock warrant an extension, or we may decide that the degree of stockholder participation in the rights offering is less than the level we desire. We may cancel the rights offering at any time prior to the expiration of the rights offering for any reason. In the event the rights offering is cancelled, all subscription payments received by the subscription agent will be returned, without interest or deduction, as soon as practicable. We also reserve the right to amend or modify the terms of the rights offering, as appropriate.

We may extend the expiration date by giving oral or written notice to our subscription agent on or before the expiration date, followed by a press release no later than 9:00 a.m., Eastern Time, on the next business day after the previously scheduled expiration date.

Conditions to the Rights Offering

To complete the rights offering, our stockholders must approve an amendment to our certificate of incorporation to increase the authorized shares of capital stock from 95,000,000 shares to 905,000,000 shares

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and the authorized shares of common stock from 90,000,000 to 900,000,000 shares. This amendment is necessary to ensure we have enough shares to effect the rights offering. Without the increase in the authorized shares, we will not be able to complete the rights offering. We will seek stockholder approval for such amendment at our upcoming annual meeting of stockholders to be held on January 11, 2011. Additional conditions to the rights offering include that the registration statement of which this prospectus is a part must be declared effective by the SEC and that we execute a registration rights agreement with Lambda Investors.

We must also be in compliance with all terms of the promissory note and security agreements evidencing the loan to us by Lambda Investors.

Further, the term of Lambda Investors' existing warrants that will remain outstanding following the completion of the rights offering will be amended so that such warrants expire at the same time as the warrants issued in the rights offering, which will have a five-year term. We will amend Lambda Investors' remaining warrants as part of completing the rights offering.

In addition, Lambda Investors' commitment to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, is subject to certain conditions, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering.

Method of Exercising Subscription Rights

The exercise of subscription rights is irrevocable and may not be cancelled or modified. Your subscription rights will not be considered exercised unless the subscription agent receives from you, your broker, custodian or nominee, as the case may be, all of the required documents properly completed and executed and your full subscription price payment in cash at or prior to 5:00 p.m., Eastern time, on [], the expiration date of the rights offering. Rights holders may exercise their rights as follows:

Subscription by Registered Holders

Rights holders who are registered holders of our common stock may exercise their subscription privilege by properly completing and executing the rights certificate together with any required signature guarantees and forwarding it, together with payment in full in cash, of the subscription price for each share of the common stock for which they subscribe, to the subscription agent at the address set forth under the subsection entitled "Delivery of Subscription Materials and Payment," on or prior to the expiration date.

Subscription by DTC Participants

Banks, trust companies, securities dealers and brokers that hold shares of our common stock on the rights offering record date as nominee for more than one beneficial owner may, upon proper showing to the subscription agent, exercise their subscription privilege on the same basis as if the beneficial owners were record holders on the rights offering record date through the Depository Trust Company, or DTC. Such holders may exercise these rights through DTC's PSOP Function on the agents subscription over PTS procedure and instructing DTC to charge their applicable DTC account for the subscription payment for the new shares or indicating to DTC that such holder intends to pay for such rights through the delivery to the Company by the holder of an equivalent amount of principal and accrued and unpaid interest of indebtedness owed by the Company to such holder, or a combination thereof, and deliver such

amount to the subscription agent. DTC must receive the subscription instructions and payment for the new shares by the rights expiration date. Except as described under the subsection titled **Guaranteed Delivery Procedures**, subscriptions accepted by the subscription agent via a Notice of Guaranteed Delivery must be delivered to the subscription agent with payment before the expiration of the subscription period.

Subscription by Beneficial Owners

Rights holders who are beneficial owners of shares of our common stock and whose shares are registered in the name of a broker, custodian bank or other nominee, and rights holders who hold common stock certificates and would prefer to have an institution conduct the transaction relating to the rights on their behalf, should instruct their broker, custodian bank or other nominee or institution to exercise their rights and

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deliver all documents and payment on their behalf, prior to the expiration date. A rights holder's subscription rights will not be considered exercised unless the subscription agent receives from such rights holder, its broker, custodian, nominee or institution, as the case may be, all of the required documents and such holder's full subscription price payment.

Payment Method

Payments must be made in full in U.S. currency by:

check or bank draft payable to Continental Stock Transfer & Trust Company (acting as subscription agent for Nephros, Inc.), drawn on a U.S. bank;
U.S. Postal money order payable to Continental Stock Transfer & Trust Company (acting as subscription agent for Nephros, Inc.) ; or
wire transfer of immediately available funds directly to the account maintained by Continental Stock Transfer & Trust Company as agent for Nephros, Inc., for purposes of accepting subscriptions in the rights offering, at JPMorgan Chase, ABA # 021-000021, Account # 475-508351 FBO Nephros, Inc. Subscription, with reference to the rights holder's name.

Rights certificates received after 5:00 p.m., Eastern Time, on [], the expiration date of the rights offering, will not be honored, and we will return your payment to you as soon as practicable, without interest or deduction.

The subscription agent will be deemed to have received payment upon:

clearance of any uncertified check deposited by the subscription agent;
receipt by the subscription agent of any certified check or bank draft, drawn on a U.S. bank;
receipt by the subscription agent of any U.S. Postal money order; or
receipt by the subscription agent of any appropriately executed wire transfer.

You should read the instruction letter accompanying the rights certificate carefully and strictly follow it. **DO NOT SEND RIGHTS CERTIFICATES OR PAYMENTS TO US.** Except as described below under Guaranteed Delivery Procedures, we will not consider your subscription received until the subscription agent has received delivery of a properly completed and duly executed rights certificate and payment of the full subscription amount. The risk of delivery of all documents and payments is on you or your nominee, not us or the subscription agent.

The method of delivery of subscription rights certificates and payment of the subscription amount to the subscription agent will be at the risk of the holders of subscription rights. If sent by mail, we recommend that you send those certificates and payments by overnight courier or by registered mail, properly insured, with return receipt requested, and that a sufficient number of days be allowed to ensure delivery to the subscription agent and clearance of payment before the expiration of the subscription period. Because uncertified personal checks may take at least five or more business days to clear, we urge you to pay or arrange for payment by means of certified check made payable to Continental Stock Transfer & Trust Company (acting as subscription agent for Nephros, Inc.) to avoid missing the opportunity to exercise your subscription rights should you decide to exercise them.

Payment Adjustments

If you send a payment that is insufficient to purchase the number of Units requested, or if the number of Units requested is not specified in the rights certificate, the payment received will be applied to exercise your subscription rights to the extent of the payment. If the payment exceeds the amount necessary for the full exercise of your subscription rights, including any over-subscription privilege exercised and permitted, the excess will be returned to

you promptly in cash. You will not receive interest or a deduction on any payments refunded to you under the rights offering.

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Medallion Guarantee May Be Required

Your signature on each subscription rights certificate must be guaranteed by an eligible institution, such as a member firm of a registered national securities exchange or a member of the Financial Industry Regulatory Authority, Inc., or a commercial bank or trust company having an office or correspondent in the United States, subject to standards and procedures adopted by us, unless:

your subscription rights certificate provides that shares are to be delivered to you as record holder of those subscriptions rights; or

you are an eligible institution.

Subscription Price

As a condition to making the loan, Lambda Investors required that we undertake a rights offering to raise additional funds to meet our ongoing financial requirements and to repay the loan. In its loan proposal, Lambda Investors specified a rights offering of 175,000,000 Units consisting of shares and warrants to purchase shares of our common stock, and that it be made at a subscription price of \$0.02 per Unit to encourage our other stockholders to participate. The loan and the rights offering, as proposed by Lambda Investors, including the \$0.02 per Unit subscription price, were approved by a special committee of our independent directors (none of whom are affiliated with Lambda Investors) after consideration of the financing alternatives available to us. In an effort to minimize the dilutive effect of the rights offering, Lambda Investors proposed that it would surrender for cancellation a portion of its existing warrants containing anti-dilution provisions that will be triggered by the rights offering. The number of shares underlying such cancelled warrants would equal the total number of shares underlying the warrants to be issued in the rights offering. The special committee considered, among other things, that (i) we are not currently in a position to attract an outside investor or investors with a stock offering at a more favorable discount to the current trading price of our stock, and (ii) even if we were able to make such an offering, without any inducement for Lambda Investors to surrender for cancellation a portion of its existing warrants as it has agreed to do in the rights offering, the dilution suffered by current investors would have been approximately equal to or greater than the dilution that participating investors will be subject to in the rights offering. See [The Rights Offering Dilution](#). The \$0.02 per Unit subscription price was not based on any discount to the market price of our common stock. The subscription price is not necessarily related to our book value, net worth or any other established criteria of value and may or may not be considered the fair value of our common stock included in the Units being offered in the rights offering. We did not consult with any financial or other advisor in determining the subscription price.

We cannot assure you that the market price of our common stock will not decline during or after the rights offering.

We also cannot assure you that you will be able to sell shares of our common stock purchased during the rights offering at a price equal to or greater than the \$0.02 subscription price per Unit. We urge you to obtain a current quote for our common stock before exercising your subscription rights or subscribe for a Unit.

Withdrawal and Termination

We reserve the right to withdraw the rights offering prior to the expiration of the rights offering for any reason. We may terminate the rights offering, in whole or in part, if at any time before completion of the rights offering there is any judgment, order, decree, injunction, statute, law or regulation entered, enacted, amended or held to be applicable to the rights offering that in the sole judgment of our board of directors would or might make the rights offering or its completion, whether in whole or in part, illegal or otherwise restrict or prohibit completion of the rights offering. We may waive any of these conditions and choose to proceed with the rights offering even if one or more of these events

occur. If we terminate the rights offering, in whole or in part, all affected subscription rights will expire without value, and all excess subscription payments received by the subscription agent will be returned, without interest, as soon as practicable.

Cancellation Rights

Our board of directors may cancel the rights offering at any time prior to the time the rights offering expires for any reason. If we cancel the rights offering, we will issue a press release notifying stockholders of the cancellation and all subscription payments received by the subscription agent will be returned, without

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interest or deduction, as soon as practicable. The cancellation of the rights offering must be approved by Lambda Investors because undertaking the rights offering is a condition to the loan from Lambda Investors.

Subscription Agent

The subscription agent for this rights offering is Continental Stock Transfer & Trust Company. We will pay all fees and expenses of the subscription agent related to the rights offering and have also agreed to indemnify the subscription agent from certain liabilities that it may incur in connection with the rights offering.

Information Agent

The information agent for this rights offering is Morrow & Co. LLC. We will pay all fees and expenses of the information agent related to the rights offering and have also agreed to indemnify the information agent from certain liabilities that it may incur in connection with the rights offering. The information agent can be contacted at the following address and telephone number:

Morrow & Co. LLC
407 West Avenue
Stamford, CT 06902
(203) 658-9400 (for brokerage firms and banks)
(800) 414-4313 (for stockholders)

Delivery of Subscription Materials and Payment

All subscription rights certificates, payments of the subscription price (unless submitted by wire transfer), nominee holder certifications and/or notice of guaranteed delivery, to the extent applicable to your exercise of rights, must be delivered to Continental Stock Transfer & Trust Company as follows:

If delivery by hand/mail/overnight courier:
Continental Stock Transfer & Trust Company
17 Battery Place, 8th Floor
New York, NY 10004
(212) 509-4000, ext. 536

Your delivery other than in the manner or to the address listed above will not constitute valid delivery.

You should direct any questions or requests for assistance concerning the method of subscribing for Units or for additional copies of this prospectus to the information agent.

Guaranteed Delivery Procedures

The subscription agent will grant you three business days after the expiration date to deliver the rights certificate if you follow the following instructions for providing the subscription agent notice of guaranteed delivery. On or prior to the expiration date, the subscription agent must receive payment in full in cash and/or securities, as provided herein, for all Units subscribed for through the exercise of the basic subscription privilege and the over-subscription privilege, together with a properly completed and duly executed notice of guaranteed delivery substantially in the form

accompanying this prospectus either by mail or overnight carrier, that specifies the name of the holder of the rights and the number of Units subscribed for. If applicable, it must state separately the number of Units subscribed for through the exercise of the over-subscription privilege and a member firm of a registered national securities exchange, a member of the Financial Industry Regulatory Authority, Inc., or a commercial bank or trust company having an office or correspondent in the United States must guarantee that the properly completed and executed subscription rights certificate for all shares of common stock subscribed for will be delivered to the subscription agent within three business days after the expiration date. The subscription agent will then conditionally accept the exercise of the rights and will withhold the certificates for shares of common stock until it receives the properly completed and duly executed rights certificate within that three-business-day time period.

In the case of holders of rights that are held of record through DTC, those rights may be exercised by instructing DTC to transfer rights from that holder's DTC account to the subscription agent's DTC account,

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together with payment of the full subscription price. The notice of guaranteed delivery must be guaranteed by a commercial bank, trust company or credit union having an office, branch or agency in the United States or by a member of a Stock Transfer Association approved medallion program such as STAMP, SEMP or MSP.

Notices of guaranteed delivery and payments (unless submitted by wire transfer) should be mailed or delivered to the appropriate address (or, for wire transfer payments, to the appropriate account) set forth under Delivery of Subscription Materials and Payment.

Fees and Expenses

We will pay all fees charged by the subscription agent. You are responsible for paying any other commissions, fees, taxes or other expenses incurred in connection with the exercise of the subscription rights or subscribing for Units.

Neither the subscription agent nor we will pay such expenses.

Notice to Nominees

If you are a broker, custodian bank or other nominee holder that holds shares of our common stock for the account of others on the record date, you should notify the beneficial owners of the shares for whom you are the nominee of the rights offering as soon as possible to learn their intentions with respect to exercising their subscription rights. You should obtain instructions from the beneficial owner, as set forth in the instructions we have provided to you for your distribution to beneficial owners. If the beneficial owner so instructs, you should complete the appropriate rights certificate and submit it to the subscription agent with the proper subscription payment. If you hold shares of our common stock for the account(s) of more than one beneficial owner, you may exercise the number of subscription rights to which all beneficial owners in the aggregate otherwise would have been entitled had they been direct holders of our common stock on the record date, provided that you, as a nominee record holder, make a proper showing to the subscription agent by submitting the form entitled Nominee Holder Certification, which is provided with your rights offering materials. If you did not receive this form, you should contact the subscription agent to request a copy.

Beneficial Owners

If you are a beneficial owner of shares of our common stock or will receive your subscription rights through a broker, custodian bank or other nominee, we will ask your broker, custodian bank or other nominee to notify you of the rights offering. If you wish to exercise your subscription rights, you will need to have your broker, custodian bank or other nominee act for you. To indicate your decision with respect to your subscription rights, you should complete and return to your broker, custodian bank or other nominee the form entitled Beneficial Owner Election Form. You should receive this form from your broker, custodian bank or other nominee with the other rights offering materials. If you wish to obtain a separate subscription rights certificate, you should contact the nominee as soon as possible and request that a separate subscription rights certificate be issued to you. You should contact your broker, custodian bank or other nominee if you do not receive this form, but you believe you are entitled to participate in the rights offering. We are not responsible if you do not receive the form from your broker, custodian bank or nominee or if you receive it without sufficient time to respond.

Non-Transferability of Subscription Rights

Your subscription rights are not transferable, other than by operation of law, and may be exercised only by you. You may not sell, transfer or assign your subscription rights to anyone else.

Validity of Subscriptions

We will resolve all questions regarding the validity and form of the exercise of your subscription rights, including time of receipt and eligibility to participate in the rights offering. Our determination will be final and binding. Once made, subscriptions and directions are irrevocable, and we will not accept any alternative, conditional or contingent subscriptions or directions. We reserve the absolute right to reject any subscriptions or directions not properly submitted or the acceptance of which would be unlawful. You must resolve any irregularities in connection with your subscriptions before the subscription period expires, unless waived by us in our sole discretion. Neither the subscription agent nor we shall be under any duty to notify you or your representative of defects in your subscriptions.

A subscription will be considered accepted, subject to our right

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to withdraw or terminate the rights offering, only when a properly completed and duly executed rights certificate and any other required documents and the full subscription payment have been received by the subscription agent. Our interpretations of the terms and conditions of the rights offering will be final and binding.

Segregated Account; Return of Funds

The subscription agent will hold funds received in payment for Units in a segregated account pending completion of the rights offering. The subscription agent will hold this money in escrow until the rights offering is completed or is withdrawn and canceled. If the rights offering is canceled for any reason, all subscription payments received by the subscription agent will be returned, without interest or penalties, as soon as practicable.

Certificates for Shares of Common Stock and Warrants

As soon as practicable after the completion of the rights offering, the subscription agent will arrange for issuance to each subscriber of the shares of common stock and warrants underlying the Units purchased in the rights offering.

Stockholder Rights

You will have no rights as a holder of the shares of our common stock you purchase in the rights offering, if any, until certificates representing the shares of our common stock are issued to you or your account at your record holder is credited with the shares of our common stock purchased in the rights offering. You will have no right to revoke your subscriptions after your rights certificate or the Beneficial Owner Election Form, the full subscription payment and any other required documents have been delivered to the subscription agent.

State Securities Law Matters

The issuance and exercise of subscription rights is subject to compliance with state securities laws and regulations.

Although we intend to distribute the rights to all stockholders, we reserve the right in some states to require stockholders, if they wish to participate, to state and agree upon exercise of their respective rights that they are acquiring the shares for investment purposes only, and that they have no present intention to resell or transfer any shares acquired. This rights offering is not being made and our securities are not being offered in any jurisdiction where the offer is not permitted under applicable local laws. We have the right, in our sole discretion, to not effect registration or qualification of the subscription rights in any state or other jurisdiction, or take any other action required by any state or other jurisdiction to allow the offer to take place in that state or jurisdiction. If you reside in a state or other jurisdiction in which registration, qualification or other action is necessary with which we choose not to comply, you will not be eligible to participate in the rights offering.

Foreign Stockholders

We will not mail this prospectus or rights certificates to stockholders with addresses that are outside the United States or that have an army post office or foreign post office address. The subscription agent will hold these rights certificates for their account. To exercise subscription rights, our foreign stockholders and stockholders that have an army post office or foreign post office address must notify us prior to 11:00 a.m., Eastern Time, at least five business days prior to the expiration of the rights offering and demonstrate to our satisfaction that the exercise of such subscription rights does not violate the laws of the jurisdiction of such stockholder.

No Revocation or Change

Once you submit the form of rights certificate to exercise any subscription rights, you are not allowed to revoke or change the exercise or request a refund of monies paid. All exercises of subscription rights are irrevocable, even if you learn information about us that you consider to be unfavorable. You should not exercise your subscription rights unless you are certain that you wish to purchase Units at the subscription price.

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Material U.S. Federal Income Tax Consequences

For U.S. federal income tax purposes, you should not recognize income or loss upon receipt or exercise of these subscription rights to purchase Units. However, neither we nor our counsel are expressing an opinion regarding the tax treatment of this distribution.

EACH HOLDER OF SUBSCRIPTION RIGHTS IS URGED TO CONSULT ITS TAX ADVISOR REGARDING THE SPECIFIC FEDERAL, STATE, LOCAL AND FOREIGN INCOME AND OTHER TAX CONSIDERATIONS OF THE RECEIPT OF SUBSCRIPTION RIGHTS IN THE RIGHTS OFFERING AND THE OWNERSHIP, EXERCISE AND DISPOSITION OF THE SUBSCRIPTION RIGHTS.

No Recommendation to Rights Holders

Our board of directors is making no recommendation regarding your exercise of the subscription rights. You are urged to make your decision based on your own assessment of our business and the rights offering. Please see Risk Factors for a discussion of some of the risks involved in investing in Units.

Listing

The subscription rights will not be listed for trading on the OTC Bulletin Board or any stock exchange or market. The shares of our common stock issuable upon exercise of the subscription rights and upon exercise of the warrants will be listed on the OTC Bulletin Board under the ticker symbol NEPH. The warrants will not be listed for trading on the OTC Bulletin Board or any stock exchange or market.

Shares of Our Common Stock Outstanding After Completion of the Rights Offering and the Private Placement of Unitss with Lambda Investors

As of the record date, we had 41,811,048 shares of our common stock issued and outstanding. If all of the Units offered are sold, we will issue 175,000,000 shares of our common stock in the rights offering and under the purchase agreement with Lambda Investors. Assuming all of the Units offered are sold and no additional shares of our common stock are issued and no outstanding options or warrants are exercised prior to the completion of the rights offering and the private placement of Units with Lambda Investors, approximately 216,811,000 shares of our common stock will be outstanding immediately after the completion of the rights offering and the private placement of Units with Lambda Investors, which will equal approximately 10,840,000 shares after giving effect to our proposed 1-for-20 reverse stock split.

Additional Information

If you have any questions or need further information or assistance concerning the method of subscribing or about the rights offering, please contact Morrow & Co., LLC, our information agent for this offering, at (203) 658-9400 (for brokerage firms and banks) or toll-free at (800) 414-4313 (for stockholders).

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PLAN OF DISTRIBUTION

On or about [], we will distribute the rights, rights certificates and copies of this prospectus to individuals who owned shares of our common stock on the record date. We have not employed any brokers, dealers or underwriters in connection with the solicitation or exercise of rights in the rights offering and no commissions, fees or discounts will be paid in connection with the rights offering. While certain of our directors, officers and other employees may solicit responses from you, those directors, officers and other employees will not receive any commissions or compensation for their services other than their normal compensation. We have agreed to pay the subscription agent and the information agent customary fees plus certain expenses in connection with the rights offering.

If you wish to exercise your subscription rights and subscribe for Units in the rights offering, you should complete the subscription rights certificate and return it with payment in cash and/or securities, as provided herein, for the Units subscribed, to the subscription agent, Continental Stock Transfer & Trust Company, at the following address:

If delivering by Hand/Mail/Overnight Courier:

Continental Stock Transfer & Trust Company
17 Battery Place, 8th Floor
New York, NY 10004
(212) 509-4000, ext. 536

You may also pay for your subscription of Units by wire transfer of immediately available funds as follows:

JPMorgan Chase
ABA # 021-000021
Continental Stock Transfer & Trust Company as agent for Nephros, Inc.
Acct # 475508351 FBO Nephros, Inc. Subscription

You should direct any questions or requests for assistance concerning the method of subscribing for Units to Morrow & Co., LLC, our information agent, at (203) 658-9400 (for brokerage firms and banks) or toll-free at (800) 414-4313 (for stockholders).

You are solely responsible for completing delivery to the subscription agent of your subscription documents, rights certificate and payment. We urge you to allow sufficient time for delivery of your subscription materials to the subscription agent. See *The Rights Offering* Method of Exercising Subscription Rights.

In the event that the rights offering is not fully subscribed, holders of rights who exercise all of their rights pursuant to their basic subscription privilege will have the opportunity to subscribe for unsubscribed rights pursuant to the over-subscription privilege. See further the section of this prospectus entitled *The Rights Offering*.

We are not entering into any standby purchase agreement or similar agreement with respect to the purchase of any Units not subscribed for through exercise of subscription privileges by our stockholders, except that Lambda Investors has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be

available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. See The Rights Offering Background of the Rights Offering Purchase Agreement with Lambda Investors. Lambda Investors is not receiving any compensation for its purchase commitment.

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Any Units purchased by Lambda Investors and the shares and warrants to purchase shares of our common stock underlying them are not being registered pursuant to the registration statement of which this prospectus is a part, and thus may not be offered or sold except pursuant to an effective registration statement under, or an exemption from the registration requirements of, the Securities Act of 1933, as amended. Prior to the closing of the private placement of Units with Lambda Investors, we will file a post-effective amendment to this registration statement to deregister any Units remaining unsold at the expiration of the rights offering.

We will enter into a registration rights agreement with Lambda Investors in connection with the rights offering. The registration rights agreement will cover the shares of our common stock (including shares issuable upon exercise of the warrants) underlying any Units sold under the purchase agreement with Lambda Investors. See **Certain Relationships and Related Transactions** for a description of the registration rights agreement with Lambda Investors.

Other than as described herein, we do not know of any existing agreements between any shareholder, broker, dealer, underwriter or agent relating to the sale or distribution of the shares of common stock.

The issuance and exercise of subscription rights is subject to compliance with state securities laws and regulations.

Although we intend to distribute the rights to all stockholders, we reserve the right in some states to require stockholders, if they wish to participate, to state and agree upon exercise of their respective rights that they are acquiring the shares for investment purposes only, and that they have no present intention to resell or transfer any shares acquired. Our securities are not being offered in any jurisdiction where the offer is not permitted under applicable local laws. We have the right, in our sole discretion, to not effect registration or qualification of the subscription rights in any state or other jurisdiction.

We have not entered into any agreements regarding stabilization activities with respect to our securities.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OPERATIONS

Immediate Need for Capital

We have incurred significant losses in our operations in each quarter since our inception. In addition, we have not generated positive cash flow since our inception. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern. Prior to the loan from Lambda Investors on September 29, 2010, our funds would have been depleted in the fourth quarter of 2010. After the loan from Lambda Investors, we now expect to be able to operate into February 2011. Therefore, notwithstanding this loan, we still need to raise operating funds through either the licensing or sale of our technologies or public or private offerings of our securities. Although we are investigating strategic funding opportunities, we might not be able to raise funds on a timely basis or on acceptable terms or at all. Without additional capital from the rights offering, we do not expect to be able to continue our operations.

Going Concern

Our independent registered public accounting firm has included an explanatory paragraph in their report on our financial statements included in this prospectus which expressed doubt as to our ability to continue as a going concern. The accompanying financial statements have been prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern, and our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. We are in immediate need of capital and are undertaking this rights offering to raise capital. Even if this rights offering is successful, based on our current cash flow projections, we will need to raise additional funds through either the licensing or sale of our technologies or the additional public or private offerings of our securities. However, there is no guarantee that we will be able to obtain further financing, or do so on reasonable terms. If we are unable to raise additional funds on a timely basis, or at all, including the completion of this rights offering, we will be forced to cease our operations.

Business Overview

Since our inception in April 1997, we have been engaged primarily in the development of hemodiafiltration, or HDF, products and technologies for treating patients with End Stage Renal Disease, or ESRD. Our products include the OLpur MD190 and MD220, which are dialyzers (our OLpur MDHDF Filter Series), OLpur₂H, an add-on module designed to enable HDF therapy using the most common types of hemodialysis machines. We began selling our OLpur MD190 dialyzer in some parts of our Target European Market (consisting of France, Germany, Ireland, Italy and the United Kingdom (U.K.), as well as Cyprus, Denmark, Greece, the Netherlands, Norway, Portugal, Spain, Sweden and Switzerland) in March 2004, and have developed units suitable for clinical evaluation for our OLpur H₂H product. We are developing our OLpur NS2000 product by modifying an existing HDF platform and incorporating our proprietary H₂H technology.

To date, we have devoted most of our efforts to research, clinical development, seeking regulatory approval for our ESRD products, establishing manufacturing and marketing relationships and establishing our own marketing and sales support staff for the development, production and sale of our ESRD therapy products in our Target European n Market and the United States upon their approval by appropriate regulatory authorities. We submitted to the FDA our 510(k) application in November 2008 for approval of our OLpur H₂H module and OLpur MD 220 filter. Following its review of the application, the FDA has requested additional information from us. We replied to the FDA inquiries on March 13, 2009.

On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration (HDF) system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

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We have also applied our filtration technologies to water filtration and in 2006 we introduced our new Dual Stage Ultrafilter (the DSU) water filtration system. Our DSU represents a new and complementary product line to our existing ESRD therapy business. The DSU incorporates our unique and proprietary dual stage filter architecture and is, to our knowledge, the only water filter that allows the user to sight-verify that the filter is properly performing its cleansing function. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli.

In the fourth quarter of 2008, we also filed a 510(k) with the FDA for approval to use our DSU product with reverse osmosis (RO) water systems found within dialysis centers and hospitals. Due the nature of this application our DSU will be categorized as a medical device and therefore requires a 510(k). While waiting for FDA action on both of our ESRD and DSU 510(k) applications we redirected much of our resources to our sales and marketing efforts of our DSU product here in the US in its non-medical device applications. Our goal is to expand distribution to the hospital market and identify other short term applications. Following its review of our DSU 510(k) application, the FDA requested additional information from us. On February 24, 2009, we provided a formal response to the FDA. On July 1, 2009, we received FDA approval of the DSU to be used to filter biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we worked on the development of a personal potable water purification system for use by warfighters. Work on this project was completed in August 2009 and we have billed approximately \$900,000 during the twenty months ended August 2009. In August 2009, we were awarded a new \$1.8 million research contract from the Office of Naval Research (ONR) for development of a potable dual-stage military water purifying filter. The research contract is an expansion of our former ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of our ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. Approximately \$1,178,000 of revenue has been recognized on this second project since September 2009, of which approximately \$755,000 was recognized in the nine months ended September 30, 2010.

Since our inception, we have incurred annual net losses. As of September 30, 2010, we had an accumulated deficit of \$91,243,000, and we expect to incur additional losses in the foreseeable future. We recognized net losses of \$2,026,000 and \$6,337,000 for the years ended December 31, 2009 and 2008, respectively, and a net loss of \$1,268,000 for the nine months ended September 30, 2010.

Since our inception, we have financed our operations primarily through sales of our equity and debt securities. From inception through September 30, 2010, we received net offering proceeds from private sales of equity and debt securities and from the initial public offering of our common stock (after deducting underwriters' discounts, commissions and expenses, and our offering expenses) of approximately \$53.3 million in the aggregate. An additional source of finances was our license agreement with Asahi, pursuant to which we received an up front license fee of \$1.75 million in March 2005.

The following trends, events and uncertainties may have a material impact on our potential sales, revenue and income from operations:

- 1) receiving regulatory approval for each of our ESRD therapy products and our DSU product in our target territories;
- 2) the completion and success of additional clinical trials;

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- 3) the market acceptance of HDF therapy in the United States and of our technologies and products in each of our target markets;
 - 4) our ability to effectively and efficiently manufacture, market and distribute our products;
 - 5) our ability to sell our products at competitive prices which exceed our per unit costs;
 - 6) the consolidation of dialysis clinics into larger clinical groups; and
- 7) the current U.S. healthcare plan is to bundle reimbursement for dialysis treatment which may force dialysis clinics to change therapies due to financial reasons.

To the extent we are unable to succeed in accomplishing (1) through (7), our sales could be lower than expected and dramatically impair our ability to generate income from operations. With respect to (6), the impact could either be positive, in the case where dialysis clinics consolidate into independent chains, or negative, in the case where competitors acquire these dialysis clinics and use their own products, as competitors have historically tended to use their own products in clinics they have acquired.

Recently Issued and Adopted Accounting Standards

We follow accounting standards set by the Financial Accounting Standards Board (FASB). The FASB sets generally accepted accounting principles (GAAP) that we follow to ensure we consistently report our financial condition, results of operations, and cash flows. References to GAAP issued by the FASB in these footnotes are to the *FASB Accounting Standards Codification*,TM sometimes referred to as the Codification or ASC. In June 2009, the FASB issued ASC

Topic 105, Generally Accepted Accounting Principals, which became the single source of authoritative nongovernmental U.S. GAAP, superseding existing FASB, American Institute of Certified Public Accountants (AICPA), Emerging Issues Task Force (EITF), and related accounting literature. This pronouncement reorganizes the thousands of GAAP pronouncements into roughly 90 accounting topics and displays them using a consistent structure. Also included is relevant SEC guidance organized using the same topical structure in separate sections and has been adopted by us for the year ended December 31, 2009. This has an impact on our financial disclosures since all future references to authoritative accounting literature will be referenced in accordance with ASC Topic 105.

In December 2009, the FASB issued an amendment to ASC Topic 810 Improvements to Financial Reporting By Enterprises Involved with Variable Interest Entities. This amendment to ASC Topic 810 requires a qualitative approach for determining the primary beneficiary of a variable interest entity and replaces the quantitative evaluation previously set forth under FASB Interpretation No. 46 (revised December 2003), Consolidation of Variable Interest Entities. This approach is focused on identifying the reporting entity that has the ability to direct the activities of a variable interest entity that most significantly affects the entity's economic performance and has the obligation to absorb the entity's losses or has the right to receive benefits from the entity. The amendment, among other things, will require enhanced disclosures about a reporting entity's involvement in variable interest entities. The guidance under the amendment to ASC Topic 810 will be effective for the first annual period beginning after November 15, 2009, and interim periods within that first annual period. We adopted the pronouncement on January 1, 2010 resulting in no impact to our consolidated financial statements.

In February 2010, the FASB issued an amendment which requires that an SEC filer, as defined, evaluate subsequent events through the date that the financial statements are issued. The update also removed the requirement for an SEC filer to disclose the date through which subsequent events have been evaluated. The adoption of this guidance on January 1, 2010 did not have a material effect on our consolidated financial statements.

In January 2010, the FASB issued an amendment to ASC Topic 820 Improving Disclosures about Fair Value Measurements, which amends the existing fair value measurement and disclosure guidance currently included in ASC Topic 820, Fair Value Measurements and Disclosures, to require additional disclosures regarding fair value

measurements. Specifically, the amendment to ASC Topic 820 requires entities to disclose the amounts of significant transfers between Level 1 and Level 2 of the fair value hierarchy and the reasons for these transfers, the reasons for any transfer in or out of Level 3 and information in the reconciliation of recurring Level 3 measurements about purchases, sales, issuances and settlements on a gross basis. In

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addition, this amendment also clarifies the requirement for entities to disclose information about both the valuation techniques and inputs used in estimating Level 2 and Level 3 fair value measurements. This amendment is effective for interim and annual reporting periods beginning after December 15, 2009, except for additional disclosures related to Level 3 fair value measurements, which are effective for fiscal years beginning after December 15, 2010. The adoption of this amendment did not impact our consolidated financial statements or results of operations.

New Accounting Pronouncements

In April 2010, the FASB issued an Accounting Standards Update which provides guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Research or development arrangements frequently include payment provisions whereby a portion or all of the consideration is contingent upon milestone events such as successful completion of phases in a study or achieving a specific result from the research or development efforts. The amendments in this standard provide guidance on the criteria that should be met for determining whether the milestone method of revenue recognition is appropriate. This standard is effective for fiscal years and interim periods within those years beginning on or after June 15, 2010, with early adoption permitted. This standard is effective for the Company on January 1, 2011. We are currently evaluating the impact that the adoption of this standard will have on our consolidated financial condition, results of operations, and disclosures.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of financial statements in accordance with generally accepted accounting principles in the United States requires application of management's subjective judgments, often requiring the need to make estimates about the effect of matters that are inherently uncertain and may change in subsequent periods. Our actual results may differ substantially from these estimates under different assumptions or conditions. While our significant accounting policies are described in more detail in the notes to consolidated financial statements included in this prospectus, we believe that the following accounting policies require the application of significant judgments and estimates.

Revenue Recognition

Revenue is recognized in accordance with ASC Topic 605. Four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed and determinable; and (iv) collectability is reasonably assured.

We recognize revenue related to product sales when delivery is confirmed by its external logistics provider and the other criteria of ASC Topic 605 are met. Product revenue is recorded net of returns and allowances. All costs and duties relating to delivery are absorbed by Nephros. All shipments are currently received directly by our customers.

Stock-Based Compensation

We account for stock-based compensation in accordance with ASC 718 by recognizing the fair value of stock-based compensation in net income. The fair value of our stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that we estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based

awards is amortized over the vesting period of the award. For stock awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

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Accounts Receivable

We provide credit terms to our customers in connection with purchases of our products. We periodically review customer account activity in order to assess the adequacy of the allowances provided for potential collection issues and returns. Factors considered include economic conditions, each customer's payment and return history and credit worthiness. Adjustments, if any, are made to reserve balances following the completion of these reviews to reflect our best estimate of potential losses.

Inventory Reserves

Our inventory reserve requirements are based on factors including the products' expiration date and estimates for the future sales of the product. If estimated sales levels do not materialize, we will make adjustments to its assumptions for inventory reserve requirements.

Accrued Expenses

We are required to estimate accrued expenses as part of our process of preparing financial statements. This process involves identifying services which have been performed on our behalf, and the level of service performed and the associated cost incurred for such service as of each balance sheet date in our financial statements. Examples of areas in which subjective judgments may be required include costs associated with services provided by contract organizations for the preclinical development of our products, the manufacturing of clinical materials, and clinical trials, as well as legal and accounting services provided by professional organizations. In connection with such service fees, our estimates are most affected by our understanding of the status and timing of services provided relative to the actual levels of services incurred by such service providers. The majority of our service providers invoice us monthly in arrears for services performed. In the event that we do not identify certain costs, which have begun to be incurred, or we under- or over-estimate the level of services performed or the costs of such services, our reported expenses for such period would be too low or too high. The date on which certain services commence, the level of services performed on or before a given date and the cost of such services are often determined based on subjective judgments. We make these judgments based upon the facts and circumstances known to us in accordance with generally accepted accounting principles.

Results of Operations

Fluctuations in Operating Results

Our results of operations have fluctuated significantly from period to period in the past and are likely to continue to do so in the future. We anticipate that our annual results of operations will be impacted for the foreseeable future by several factors including the progress and timing of expenditures related to our research and development efforts, marketing expenses related to product launches, timing of regulatory approval of our various products and market acceptance of our products. Due to these fluctuations, we believe that the period to period comparisons of our operating results are not a good indication of our future performance.

The Fiscal Year Ended December 31, 2009 Compared to the Fiscal Year Ended December 31, 2008

Product Revenues

Total product revenues for the year ended December 31, 2009 were \$2,661,000 compared to \$1,473,000 for the year ended December 31, 2008. The \$1,188,000, or 81%, increase is primarily due to \$1,093,000 related to revenue generated from the Office of Naval Research project in the United States. The revenue derived from this project was \$1,093,000 for the twelve months ended December 31, 2009 compared to \$196,000 for the same period in 2008, which was the project's initial period beginning in January 2008. Sales of the OLpur MD190 and MD220 Dialyzers in Europe were \$1,265,000 for the twelve months ended December 31, 2009 compared to \$1,228,000 for the same period in 2008. This \$37,000 or 3% increase in revenue was impacted by the adverse currency translation of the Euro to the U.S. dollar. Units sold were 47,532 for the twelve months ended December 31, 2009 compared to 44,623 units for the same period in 2008, a 6.5% increase. Although the sales price of these units, which is in Euro, remained constant approximately \$53,000 was lost due to currency translation. In addition, revenues in the United States from sales of the Dual Stage Ultrafilter (the DSU) water filter were \$303,000 for the twelve months ended December 31, 2009 compared to \$49,000 for the same period in 2008. The DSU represents a new and complementary product line introduced in 2008.

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Cost of Goods Sold

Cost of goods sold was \$1,744,000 for the year ended December 31, 2009 compared to \$1,064,000 for the year ended December 31, 2008. The \$680,000, or 64%, increase is primarily due to costs related to the Office of Naval Research project in the United States. The cost of goods sold related to the Office of Naval Research project was \$692,000 for the twelve months ended December 31, 2009 compared to \$141,000 for the same period in 2008, an increase of \$551,000. The increased cost is correlated to the higher revenue recognized from this project for the year ended December 31, 2009 compared to the same period in 2008. Cost of goods sold related to the OLpur MD190 and MD220 Dialyzers sold in Europe for the year ended December 31, 2009 was \$969,000 an increase of \$46,000, or 5%, over the comparable period in 2008. This increase was due primarily to higher sales volume. Units sold were 47,532 for the twelve months ended December 31, 2009 compared to 44,623 units for the same period in 2008, a 6.5% increase. Cost of goods sold related to the DSU water filters sold in the United States were \$83,000 for the year ended December 31, 2009. The DSU represents a new and complementary product line introduced in 2008 and there were no cost of goods sold incurred for the year ended December 31, 2008.

Research and Development

Research and development expenses were \$280,000 for the year ended December 31, 2009 compared to \$1,977,000 for the year ended December 31, 2008, a decrease of \$1,697,000 or 86%. This decrease is related to the fact that a clinical trial was conducted in 2008 and there was no clinical trial conducted during 2009. Clinical trial expenses decreased by approximately \$964,000 during the twelve months ended December 31, 2009 compared to the same period in 2008. Related reductions in personnel and lab testing resulted in reduced expenses of \$491,000 and \$226,000 respectively during the twelve months ended December 31, 2009 compared to the same period in 2008. A reduction in travel expenses in the amount of \$23,000 was offset by an increase of \$13,000 in development expenses related to the DSU water filter during the twelve months ended December 31, 2009 compared to the same period in 2008.

Depreciation and Amortization Expense

Depreciation expense was \$231,000, for the year ended December 31, 2009 compared to \$447,000 for the year ended December 31, 2008, a decrease of \$216,000, or 48.3%. An additional \$59,000 of depreciation was recorded in 2008 related to furniture and fixtures and tooling to reflect the assessed utility of these assets as of December 31, 2008.

Selling, General and Administrative Expenses

Selling, general and administrative expenses were \$2,812,000 for the year ended December 31, 2009 compared to \$4,702,000 for the year ended December 31, 2008, a decrease of \$1,890,000 or 40%. A reduction in personnel and related expenses resulted in a decrease of \$1,072,000 for the twelve months ended December 31, 2009 compared to the same period in 2008. Reductions of \$246,000 in legal expenses, \$232,000 in marketing expenses, \$186,000 in recruiting expenses, \$70,000 in insurance expenses and \$85,000 in facility expenses for the twelve months ended December 31, 2009 compared to the same period in 2008 were also achieved. The legal expense reduction was due to less activity and transition to a new law firm in 2009. Marketing activities related to trade shows were curtailed in 2009. Recruiting fees were incurred for four hires in 2008 and none in 2009. The reduction in facility expenses resulted from both the Ireland and U.S. offices moving to less expensive locations for 2009.

Interest Income

Interest income was \$9,000 for the year ended December 31, 2009 compared to \$199,000 for the year ended December 31, 2008. The decrease of \$190,000, or 95.5%, reflects the impact of having less cash on hand in 2009 compared to 2008 and therefore, fewer investments to generate interest income.

Interest Expense

We incurred approximately \$2,000 of interest expense for the year ended December 31, 2009. This interest relates primarily to financing of premiums for product liability insurance. No interest expense was incurred during 2008. We had no outstanding debt during 2009 or 2008.

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Impairment of Auction Rate Securities and Gain on sale of investments

During the fiscal year 2008, we had investments in auction rate securities (ARS) which are long-term debt instruments with interest rates reset through periodic short-term auctions. If there are insufficient buyers when such a periodic auction is held, then the auction fails and the holders of the ARS are unable to liquidate their investment through such auction. With the liquidity issues experienced in global credit and capital markets, the ARS held by us had experienced multiple failed auctions since February 2008, and as a result, we did not consider these affected ARS liquid in the first quarter of 2008. Accordingly, while we had classified its ARS as current assets as of January 1, 2008, we reclassified them as noncurrent assets at March 31, 2008.

Based upon an analysis of other-than-temporary impairment factors, we wrote down ARS with an original par value of \$4,400,000 to an estimated fair value of \$4,286,000 as of March 31, 2008. We reviewed impairments associated with the above in accordance with ASC Topic 320 to determine the classification of the impairment as temporary or other-than-temporary. We determined the ARS classification to be other-than-temporary, and charged an impairment loss of \$114,000 on the ARS to its results of operations for the three months ended March 31, 2008 and twelve months ended December 31, 2008.

During the three months ended June 30, 2008, \$300,000 of principal on our ARS had been paid back by the debtor, resulting in our investment in ARS having decreased from \$4,400,000 to \$4,100,000 (par value) at June 30, 2008. The net book value of our ARS at June 30, 2008 was \$3,986,000, due to the approximate \$114,000 impairment recorded at March 31, 2008. On July 22, 2008 we sold our ARS to a third party at 100% of par value, for proceeds of \$4,100,000. We reclassified the ARS from Available-for-Sale to Trading Securities due to the sale of the investments in July 2008.

In accordance with ASC Topic 320, the ARS, classified as Trading Securities, were valued at their fair value of \$4,100,000 at June 30, 2008. The adjustment of the investment's carrying value from \$3,986,000 net book value to \$4,100,000 fair value resulted in an Unrealized Holding Gain of \$114,000 which is included in our Statement of Operations for the three and six months ended June 30, 2008.

We subsequently reversed the Unrealized Holding Gain and recorded in the results of operations for the twelve months ended December 31, 2008, a Realized Gain on Sale of Investments of \$114,000 in July 2008 due to the sale transaction being executed.

We had no investments in Auction Rate Securities during the year ended December 31, 2009.

Other Income

Other income in the amount of approximately \$373,000 and \$181,000 for the years ended December 31, 2009 and December 31, 2008, respectively, resulted primarily from receipt of New York State Qualified Emerging Technology Company (QETC) tax refunds in each of these periods. Tax credits for the years 2006 and 2007 were received and recognized during the year ended December 31, 2009. The tax credit for the year 2005 was received and recognized during the year ended December 31, 2008.

Nine Months Ended September 30, 2010 Compared to the Nine Months Ended September 30, 2009

Revenues

Total revenues for the nine months ended September 30, 2010 were approximately \$2,421,000 compared to approximately \$1,869,000 for the nine months ended September 30, 2009. Total revenues increased approximately \$552,000. The increase of approximately 30% is due to increased revenue of approximately \$260,000 in sales of our DSU in the United States for the nine months ended September 30, 2010 over the same period in 2009. Approximately \$73,000 of the increased DSU sales was related to the development agreement with STERIS Corporation, of which approximately \$33,000 is related to the recognition of revenue previously deferred and the remaining \$40,000 is related to the achievement of a milestone during the three months ended September 30, 2010. Revenue from sales of our MD filters in our Target European Market was approximately \$324,000 higher for the nine months ended September 30, 2010 compared to the same period in 2009. Approximately \$369,000 of the European revenue increase was due to more units sold, offset partially by \$45,000 in losses due to foreign currency exchange rate fluctuation. Unit sales in Europe increased approximately 42% for the nine months ended September 30, 2010 compared to the same period in

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2009. Partially offsetting the increases above was a decrease in net product billings of approximately \$32,000 related to our contract with the Office of U.S. Naval Research during the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009.

Cost of Goods Sold

Cost of goods sold was approximately \$1,446,000 for the nine months ended September 30, 2010 compared to approximately \$1,251,000 for the nine months ended September 30, 2009. The increase of \$195,000 or 16% is due to increased costs of approximately \$110,000 related to increased sales of our DSU in the United States for the nine months ended September 30, 2010 over the same period in 2009. Costs related to revenue from sales of our MD filters in our Target European Market was approximately \$208,000 higher for the nine months ended September 30, 2010 compared to the same period in 2009. Costs related to the contract with the Office of U.S. Naval Research were approximately \$123,000 lower for the nine months ended September 30, 2010 compared to the same period in 2009 due to the use of a subcontractor rather than personnel.

Research and Development

Research and development expenses were approximately \$259,000 for the nine months ended September 30, 2010 compared to approximately \$212,000 for the nine months ended September 30, 2009, an increase of \$47,000 or 22%. Approximately \$44,000 of the increase was wages primarily due to personnel working on research projects other than the contract with the Office of U.S. Naval Research. The remaining \$3,000 increase is due to increased spending on testing materials during the nine months ended September 30, 2010 compared to the same period in 2009.

Depreciation Expense

Depreciation expense was approximately \$98,000 for the nine months ended September 30, 2010 compared to approximately \$190,000 for the nine months ended September 30, 2009, a decrease of 48%. The decrease of approximately \$92,000 is primarily due to several assets having been fully depreciated as of year end 2009 resulting in no depreciation expense for those assets during the nine months ended September 30, 2010. There were no disposals of assets during the nine months ended September 30, 2010.

Selling, General and Administrative Expenses

Selling, general and administrative expenses were approximately \$1,903,000 for the nine months ended September 30, 2010 compared to approximately \$2,093,000 for the nine months ended September 30, 2009, a decrease of \$190,000 or 9%. The decrease is primarily due to a decrease in personnel related expenses of approximately \$224,000 during the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009. This decrease was partially offset by increased legal costs of approximately \$34,000 during the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009.

Interest Income

Interest income was approximately \$1,000 for the nine months ended September 30, 2010 compared to approximately \$8,000 for the nine months ended September 30, 2009. The decrease of approximately \$7,000 or 88% is due to the decrease in investments held during the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009.

Interest Expense

There was no interest expense for the nine months ended September 30, 2010. We incurred approximately \$2,000 of interest expense for the nine months ended September 30, 2009. This interest relates primarily to financing of premiums for product liability insurance.

Other income (expense)

Other income in the amount of approximately \$16,000 for the nine months ended September 30, 2010 resulted from the reversal of a prior year's accrual determined to no longer be necessary. Other income in the amount of approximately \$328,000 for the nine months ended September 30, 2009 resulted primarily from receipt of New York State Qualified Emerging Technology Company tax refunds for years 2006 and 2007.

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Off-Balance Sheet Arrangements

We did not engage in any off-balance sheet arrangements during the years ended December 31, 2009 and December 31, 2008 or the nine months ended September 30, 2010.

Liquidity and Capital Resources

At September 30, 2010, we had cash and cash equivalents totaling approximately \$421,000 and tangible assets of approximately \$1,682,000. On September 29, 2010, Lambda Investors loaned us \$500,000, which we expect will allow us to operate into February 2011. If we do not complete this rights offering, we expect that we will be forced to wind down our operations. See "Going Concern" above.

Even if we complete this rights offering, we will need significant additional funding to continue our operations. There can be no assurance that any such funding will be available to us on acceptable terms or at all. Our future liquidity sources and requirements will depend on many factors, including:

- the level of stockholder participation in the rights offering
- the availability of additional financing, through the sale of equity securities or otherwise, on commercially reasonable terms or at all;

- the action of the FDA on our 501(k) application for our hemodiafiltration system.
- the market acceptance of our products, and our ability to effectively and efficiently produce and market our products;
- the timing and costs associated with obtaining United States regulatory approval or the Conformité Européene, or CE, mark, which demonstrates compliance with the relevant European Union requirements and is a regulatory pre requisite for selling our ESRD therapy products in the European Union and certain other countries that recognize CE marking (for products other than our OLpur MDHDF filter series, for which the CE mark was obtained in July 2003);
- the continued progress in and the costs of clinical studies and other research and development programs;
- the costs involved in filing and enforcing patent claims and the status of competitive products; and
- the cost of litigation, including potential patent litigation and any other actual or threatened litigation.

We expect to put our current capital resources to the following uses:

- for the marketing and sales of our products;
- to obtain appropriate regulatory approvals and expand our research and development with respect to our ESRD therapy products;

- to continue our ESRD therapy product engineering;
- to pursue business opportunities with respect to our DSU water-filtration product; and
- for working capital purposes.

In response to liquidity issues experienced with our auction rate securities, and in order to facilitate greater liquidity in our short-term investments, on March 27, 2008, our board of directors adopted an Investment, Risk Management and Accounting Policy. Such policy limits the types of instruments or securities in which we may invest our excess funds in the future to: U.S. Treasury Securities; Certificates of Deposit issued by money center banks; Money Funds by money center banks; Repurchase Agreements; and Eurodollar Certificates of Deposit issued by money center banks. This policy provides that our primary objectives for investments shall be the preservation of principal and achieving sufficient liquidity to meet our forecasted cash requirements. In addition, provided that such primary objectives are met, we may seek to achieve the maximum yield available under such constraints.

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Our forecast of the period of time through which our financial resources will be adequate to support our operations is a forward-looking statement that involves risks and uncertainties, and actual results could vary materially. In the event that our plans change, our assumptions change or prove inaccurate, or if our existing cash resources, together with other funding resources including increased sales of our products, otherwise prove to be insufficient to fund our operations and we are unable to obtain additional financing, we will be required to adopt alternatives, such as curtailing our planned activities or ceasing our operations.

At September 30, 2010, we had an accumulated deficit of approximately \$91,243,000, and we expect to incur additional losses in the foreseeable future at least until such time, if ever, that we are able to increase product sales or licensing revenue. We have financed our operations since inception primarily through the private placements of equity and debt securities and our initial public offering in September 2004, from licensing revenue received from Asahi Kasei Medical Co., Ltd. (Asahi) in March 2005, a private placement of convertible debenture in June 2006 and a private investment in public equity in September 2007 and a private placement in July 2009.

Net cash used in operating activities was \$2,612,000 for the year ended December 31, 2009 compared to \$5,725,000 for the year ended December 31, 2008.

During 2009, the net cash used in operating activities was \$3,113,000 less than the net cash used in operating activities during 2008. The most significant items contributing to the reduction in cash used in operating cash are highlighted below:

our net loss in 2009 was \$2,026,000 compared to \$6,337,000 in 2008. This represents an improvement of \$4,311,000 in operating cash in 2009. Noncash adjustments to reconcile net loss to net cash used in operating activities were: stock-based compensation was \$108,000 and \$155,000 in 2009 and 2008 respectively, a reduction of \$47,000, depreciation expense was \$231,000 and \$447,000 in 2009 and 2008 respectively, a reduction of \$216,000 and an increase to the inventory reserve of \$18,000 in 2009.

during 2009, our accounts receivable, other current assets and other assets increased by \$193,000. This compares to a decrease of \$236,000 in 2008. This represents a \$429,000 use of operating cash in 2009.

during 2009, our inventory decreased by \$75,000. This compares to an increase in inventory of \$409,000 in 2008. This represents a \$484,000 source of operating cash in 2009.

during 2009, accounts payable and accrued expenses decreased by \$807,000. This compares to an increase in accounts payable and accrued expenses of \$183,000 during 2008. This represents a \$990,000 use of operating cash in 2009.

Net cash used by investing activities was \$21,000 for the year ended December 31, 2009 compared to \$4,599,000 of net cash provided by investing activities for the year ended December 31, 2008. In 2009, \$28,000 was used to purchase equipment and \$7,000 was provided by the maturity of a short-term investment. In 2008, \$4,693,000 was provided due to the maturity of short-term investments. Approximately \$97,000 of funds was used to purchase property, plant and equipment and \$3,000 was provided by the sale of equipment.

Net cash provided by financing activities was \$1,336,000 for the year ended December 31, 2009 resulting from the sale of common stock of \$1,251,000 and proceeds from the exercise of stock options of \$85,000. There were no financing activities in 2008.

Net cash used in operating activities was approximately \$641,000 for the nine months ended September 30, 2010 compared to approximately \$1,870,000 for the nine months ended September 30, 2009. The most significant items contributing to this decrease of approximately \$1,229,000 cash used in operating activities during the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009 are highlighted below:

during the 2010 period, our net loss decreased by approximately \$275,000;
during the 2010 period, we recorded deferred revenue of \$67,000, whereas there was no deferred revenue in the 2009
period;

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during the 2010 period, depreciation expense decreased by approximately \$92,000; our accounts receivable decreased by approximately \$168,000 during the 2010 period compared to an increase of approximately \$114,000 during the 2009 period; our prepaid expenses and other assets decreased by approximately \$67,000 in the 2010 period compared to a decrease of approximately \$49,000 in the 2009 period; and our accounts payable and accrued expenses increased by approximately \$129,000 in the aggregate in the 2010 period compared to a decrease of approximately \$638,000 in the 2009 period.

Offsetting the above changes are the following items:

during the 2010 period, our stock-based compensation expense increased by approximately \$2,000; and our inventory decreased by approximately \$28,000 during the 2010 period compared to a decrease of approximately \$118,000 during the 2009 period.

Net cash used in investing activities was approximately \$6,000 for the nine months ended September 30, 2010, compared to net cash provided by investing activities of approximately \$7,000 for the nine months ended September 30, 2009. Net cash used in investing activities for the nine months ended September 30, 2010 was for the purchase of tooling equipment. Net cash provided by investing activities was approximately \$7,000 for the nine months ended September 30, 2009 and resulted from the maturities of short-term investments.

Financing activities provided net cash of approximately \$72,000 for the nine months ended September 30, 2010 resulting from the issuance of common stock due to the exercise of stock options.

On July 24, 2009, we raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of our common stock and warrants to purchase an aggregate of 672,581 shares of our common stock, representing 50% of the shares of common stock purchased by each investor. We sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014. For the nine months ended September 30, 2009, \$84,000 of cash was also provided by the exercise of stock options.

Contractual Obligations and Commercial Commitments

The following tables summarize our approximate minimum contractual obligations and commercial commitments as of December 31, 2009:

	Payments Due in Period					More than 5 Years
	Total	Within 1 Year	Years 1 - 3	Years 3 - 5		
Leases	\$ 186,000	\$ 101,000	\$ 85,000	\$		\$
Employment Contracts	244,000	195,000	49,000			
Total	\$ 430,000	\$ 296,000	\$ 134,000	\$		\$

Certain Risks and Uncertainties

Certain statements in this prospectus, including certain statements contained in Description of Business and Management's Discussion and Analysis, constitute forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. The words or phrases can be, may, could, would, expects, believes, seeks, estimates, projects and similar phrases are intended to identify such forward-looking statements. Such forward-looking statements are subject to

various known and unknown risks and uncertainties, including those described on the following pages, and we caution you that any forward-looking information provided by us is not a guarantee of future performance. Our actual results could differ materially from those anticipated by such forward-looking statements due to a number of factors, some of which are beyond our control. All such forward-looking statements are current only as of the date on which such statements were made. We do not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

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BUSINESS

Overview

Founded in 1997, we are a Delaware corporation that has been engaged primarily in the development of hemodiafiltration, or HDF, products and technologies for treating patients with End Stage Renal Disease, or ESRD. In January 2006, we introduced our new Dual Stage Ultrafilter (the DSU) water filtration system, which represents a new and complementary product line to our existing ESRD therapy business.

We currently have three products in various stages of development in the HDF modality to deliver improved therapy to ESRD patients:

OLpur MDHDF filter series (which we sell in various countries in Europe and currently consists of our MD190 and MD220 diafilters); to our knowledge, the only filter designed expressly for HDF therapy and employing our proprietary Mid-Dilution Diafiltration technology;

OLpur H₂H, our add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy; and

OLpur NS2000 system, our stand-alone HDF machine and associated filter technology.

We have also developed our OLpur HD 190 high-flux dialyzer cartridge, which incorporates the same materials as our OLpur MD series but does not employ our proprietary Mid-Dilution Diafiltration technology. Our OLpur HD190 was designed for use with either hemodialysis or hemodiafiltration machines, and received its approval from the U.S. Food and Drug Administration, or FDA, under Section 510(k) of the Food, Drug and Cosmetic Act, or the FDC Act, in June 2005.

OLpur and H₂H are among our trademarks for which U.S. registrations are pending. H₂H is a registered European Union trademark. We have assumed that the reader understands that these terms are source-indicating. Accordingly, such terms appear throughout the remainder of this prospectus without trademark notices for convenience only and should not be construed as being used in a descriptive or generic sense.

We believe that products in our OLpur MDHDF filter series are more effective than any products currently available for ESRD therapy because they are better at removing certain larger toxins (known in the industry as middle molecules because of their heavier molecular weight) from blood. The accumulation of middle molecules in the blood has been related to such conditions as malnutrition, impaired cardiac function, carpal tunnel syndrome, and degenerative bone disease in the ESRD patient. We also believe that OLpur H₂H will, upon introduction, expand the use of HDF as a cost-effective and attractive alternative for ESRD therapy, and that, if approved in 2010, our OLpur H₂H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

We believe that our products will reduce hospitalization, medication and care costs as well as improve patient health (including reduced drug requirements and improved blood pressure profiles), and therefore, quality of life, by removing a broad range of toxins through a more patient-friendly, better-tolerated process. In addition, independent studies in Europe have indicated that, when compared with dialysis as it is currently offered in the United States, HDF can reduce the patient's mortality risk by up to 35%. We believe that the OLpur MDHDF filter series and the OLpur H₂H will provide these benefits to ESRD patients at competitive costs and without the need for ESRD treatment providers to make significant capital expenditures in order to use our products. We also believe that the OLpur NS2000 system, if successfully developed, will be the most cost-effective stand-alone hemodiafiltration system available.

In the first quarter of 2007, we received approval from the FDA for our Investigational Device Exemption (IDE) application for the clinical evaluation of our OLpur H₂H module and OLpur MD 220 filter. We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to

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discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

In January 2006, we introduced our new Dual Stage Ultrafilter (the DSU) water filtration system. Our DSU represents a new and complementary product line to our existing ESRD therapy business. The DSU incorporates our unique and proprietary dual stage filter architecture and is, to our knowledge, the only water filter that allows the user to sight-verify that the filter is properly performing its cleansing function. Our research and development work on the OLpur H₂H and MD Mid-Dilution filter technologies for ESRD therapy provided the foundations for a proprietary multi-stage water filter that we believe is cost effective, extremely reliable, and long-lasting. We believe our DSU can offer a robust solution to a broad range of contaminated water and disease prevention issues. Hospitals are particularly stringent in their water quality requirements; transplant patients and other individuals whose immune systems are compromised can face a substantial infection risk in drinking or bathing with standard tap water that would generally not present a danger to individuals with normal immune function. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. With over 5,800 registered hospitals in the United States alone (as reported by the American Hospital Association in Fast Facts of November 11, 2009), we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. On July 1, 2009, we received FDA approval of the DSU to be used to filter biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures.

During the twelve months ended December 31, 2009, we were granted four new patents. In the U.S., we were issued patent #7,534,349 for a Dual Stage Ultrafilter with pump mechanism and/or shower feature. In Canada, we were issued patent #2,430,575 for a valve mechanism used in Infusion Fluid systems which is a feature used on our H₂H module and patent #2,396,852 for an Ionic Enhanced Dialysis/Diafiltration system which is related to mid-dilution HDF. In China, we were issued patent #200510092067.3 for a Dual Stage Hemodiafiltration cartridge used in its OLpur MD HDF Filter.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we worked on the development of a personal potable water purification system for use by warfighters. Work on this project was completed in August 2009 and we have billed approximately \$900,000 during the twenty months ended August 2009. In August 2009, we were awarded a new \$1.8 million research contract from the Office of Naval Research (ONR) for development of a potable dual-stage military water purifying filter. The research contract is an expansion of our former ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of our ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. Approximately \$1,178,000 of revenue has been recognized on this second project since September 2009, of which approximately \$755,000 was recognized during the nine months ended September 30, 2010.

We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We have also begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.

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Going Concern

Our independent registered public accounting firm has included an explanatory paragraph in its report on our financial statements included in this prospectus which expresses doubt as to our ability to continue as a going concern. The financial statements included in this prospectus have been prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

We have incurred losses in our operations in each quarter since inception. For the years ended December 31, 2009 and 2008, we incurred net losses of \$2,026,000 and \$6,337,000, respectively. In addition, we have not generated positive cash flow from operations for the years ended December 31, 2009 and 2008. To become profitable, we must increase revenue substantially and achieve and maintain positive gross and operating margins. If we are not able to increase revenue and gross and operating margins sufficiently to achieve profitability, our results of operations and financial condition will be materially and adversely affected.

At December 31, 2009, we had \$1,004,000 in cash and cash equivalents. There can be no assurance that our cash and cash equivalents will provide the liquidity we need to continue our operations. (See Certain Risks and Uncertainties .) These operating plans primarily include the continued development and support of our business in the European and Canadian markets, organizational changes necessary to enhance the commercialization of our water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation.

We are undertaking this rights offering to raise capital to support our continued operations. If this rights offering is not completed, we do not expect we will be able to continue operating and would begin to wind down our operations.

If this rights offering is successful, we will continue to investigate additional funding opportunities by talking to various potential investors who could provide financing. However, there can be no assurance that we will be able to obtain further financing, do so on reasonable terms or do so on terms that would not substantially dilute your equity interests in us. If we are unable to raise additional funds on a timely basis, or at all, we may not be able to continue our operations.

There can be no assurance that our future cash flow will be sufficient to meet our obligations and commitments. If we are unable to generate sufficient cash flow from operations in the future to service our commitments we will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing our planned activities or ceasing our operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable us to continue to satisfy our capital requirements.

Delisting of Stock from AMEX

On September 12, 2008, we received a letter from the NYSE Alternext US LLC (formerly, the American Stock Exchange or AMEX) notifying us of our noncompliance with certain continued listing standards.

In response to that letter, we submitted a plan of compliance to the AMEX on October 13, 2008 advising the AMEX of the actions we have taken, or will take, that would bring us into compliance with the continued listing standards by April 30, 2009.

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On January 8, 2009, we received a letter from the AMEX notifying us that it was rejecting our plan of compliance regarding the following listing standards to which we were in noncompliance of:

Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;

Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and

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Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

The AMEX further stated that the AMEX intended to strike our common stock from the AMEX by filing a delisting application with the SEC pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, we decided not to seek an appeal of the AMEX's intention to delist our common stock.

On January 22, 2009, we were informed by the AMEX that they had suspended trading in our common stock effective immediately. Immediately following the notification, our common stock was no longer traded on the AMEX.

Effective February 4, 2009, our common stock was quoted on the Over the Counter Bulletin Board under the symbol NEPH.OB .

In a letter dated April 13, 2009, we received a copy of the AMEX's application to strike our common stock from the AMEX.

Current ESRD Therapy Options

Current renal replacement therapy technologies include (1) two types of dialysis, peritoneal dialysis and hemodialysis, (2) hemofiltration and (3) hemodiafiltration, a combination of hemodialysis and hemofiltration. Dialysis can be broadly defined as the process that involves movement of molecules across a semipermeable membrane. In hemodialysis, hemofiltration or hemodiafiltration, the blood is exposed to an artificial membrane outside of the body. During Peritoneal Dialysis (PD), the exchange of molecules occurs across the membrane lining of the patient's peritoneal cavity. While there are variations in each approach, in general, the three major categories of renal replacement therapy in the marketplace today are defined as follows:

Dialysis

Peritoneal Dialysis, or PD, uses the patient's peritoneum, the membrane lining covering the internal abdominal organs, as a filter by introducing injectable-grade dialysate solution into the peritoneal cavity through a surgically implanted catheter. After some period of time, the fluid is drained and replaced. PD is limited in use because the peritoneal cavity is subject to scarring with repeated episodes of inflammation of the peritoneal membrane, reducing the effectiveness of this treatment approach. With time, a PD patient's kidney function continues to deteriorate and peritoneal toxin removal alone may become insufficient to provide adequate treatment. In such case the patient may switch to an extracorporeal renal replacement therapy such as hemodialysis or hemodiafiltration.

Hemodialysis uses an artificial kidney machine to remove certain toxins and fluid from the patient's blood while controlling external blood flow and monitoring patient vital signs. Hemodialysis patients are connected to a dialysis machine via a vascular access device. The hemodialysis process occurs in a dialyzer cartridge with a semi-permeable membrane which divides the dialyzer into two chambers: while the blood is circulated through one chamber, a premixed solution known as dialysate circulates through the other chamber. Toxins and excess fluid from the blood cross the membrane into the dialysate solution through a process known as diffusion.

Hemofiltration is a cleansing process without dialysate solution where blood is passed through a semi-permeable membrane, which filters out solute particles.

Hemodiafiltration, or HDF, in its basic form combines the principles of hemodialysis with hemofiltration. HDF uses dialysate solution with a negative pressure (similar to a vacuum effect) applied to the dialysate solution to draw additional toxins from the blood and across the membrane. This process is known as convection. HDF thus combines diffusion with convection, offering efficient removal of small solutes by diffusion, with improved removal of larger substances (i.e., middle molecules) by convection.

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Hemodialysis is the most common form of extracorporeal renal replacement therapy and is generally used in the United States. Hemodialysis fails, in our opinion, to address satisfactorily the long-term health or overall quality of life of the ESRD patient. We believe that the HDF process, which is currently available in our Target European Market and Japan, offers improvement over other dialysis therapies because of better ESRD patient tolerance, superior blood purification of both small and middle molecules, and a substantially improved mortality risk profile.

Current Dialyzer Technology used with HDF Systems

In our view, treatment efficacy of current HDF systems is limited by current dialyzer technology. As a result of the negative pressure applied in HDF, fluid is drawn from the blood and across the dialyzer membrane along with the toxins removed from the blood. A portion of this fluid must be replaced with a man-made injectable grade fluid, known as substitution fluid, in order to maintain the blood's proper fluid volume. With the current dialyzer technology, fluid is replaced in one of two ways: pre-dilution or post-dilution.

With pre-dilution, substitution fluid is added to the blood before the blood enters the dialyzer cartridge. In this process, the blood can be over-diluted, and therefore more fluid can be drawn across the membrane. This enhances removal of toxins by convection. However, because the blood is diluted before entering the device, it actually reduces the rate of removal by diffusion; the overall rate of removal, therefore, is reduced for small molecular weight toxins (such as urea) that rely primarily on diffusive transport.

With post-dilution, substitution fluid is added to blood after the blood has exited the dialyzer cartridge. This is the currently preferred method because the concentration gradient is maintained at a higher level, thus not impairing the rate of removal of small toxins by diffusion. The disadvantage of this method, however, is that there is a limit in the amount of plasma water that can be filtered from the blood before the blood becomes too viscous, or thick. This limit is approximately 20% to 25% of the blood flow rate. This limit restricts the amount of convection, and therefore limits the removal of middle and larger molecules.

The Nephros Mid-Dilution Diafiltration Process

Our OLpur MDHDF filter series uses a design and process we developed called Mid-Dilution Diafiltration, or MDF. MDF is a fluid management system that optimizes the removal of both small toxins and middle-molecules by offering the advantages of pre-dilution HDF and post-dilution HDF combined in a single dialyzer cartridge. The MDF process involves the use of two stages: in the first stage, blood is filtered against a dialysate solution, therefore providing post-dilution diafiltration; it is then overdiluted with sterile infusion fluid before entering a second stage, where it is filtered once again against a dialysate solution, therefore providing pre-dilution diafiltration. We believe that the MDF process provides improved toxin removal in HDF treatments, with a resulting improvement in patient health and concurrent reduction in healthcare costs.

Our ESRD Therapy Products

Our products currently available or in development with respect to ESRD Therapy include:

OLpur MDHDF Filter Series

OLpur MD190 and MD220 constitute our dialyzer cartridge series that incorporates the patented MDF process and is designed for use with existing HDF platforms currently prevalent in our Target European Market and Japan. Our MDHDF filter series incorporates a unique blood-flow architecture that enhances toxin removal with essentially no cost increase over existing devices currently used for HDF therapy.

Laboratory bench studies have been conducted on our OLpur MD190 by members of our research and development staff and by a third party. We completed our initial clinical studies to evaluate the efficacy of our OLpur MD190 as compared to conventional dialyzers in Montpellier, France in 2003. The results from this clinical study support our belief that OLpur MD190 is superior to post-dilution hemodiafiltration using a standard high-flux dialyzer with respect to β_2 -microglobulin clearance. In addition, clearances of urea, creatinine, and phosphate met the design specifications proposed for the OLpur MD190 device. Furthermore, adverse event data from the study suggest that hemodiafiltration with our OLpur MD190 device was well tolerated by the patients and safe.

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We have initiated longer term clinical studies in the United Kingdom, France, Germany, Italy and Spain to further demonstrate the therapeutic benefits of our OLpur MDHDF filter series. A multi-center study was started in March 2005. This study encompassed seven centers in France, five centers in Germany and one center in Sweden. Also commencing in 2005 were studies in the United Kingdom and in Italy. A three-month study was conducted in Spain. All enrolled patients in the multi-center and Spain studies completed the investigational period with the Nephros OLpur MDHDF filter devices. Initial data is very positive, demonstrating improved low-molecular weight protein removal, improvements in appetite, an overall improved distribution of fluids and body composition, and optimal toxin removal and treatment tolerance for patients suffering from limited vascular access. Data was presented at the American Society of Nephrology meeting held in November 2006.

We contracted with TÜV Rheinland of North America, Inc., a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, to assist us in obtaining the Conformité Européene, or CE mark, a mark which demonstrates compliance with relevant European Union requirements. We received CE marking on the OLpur MD190 (which also covers other dialyzers in our MDHDF filter series), as well as certification of our overall quality system, on July 31, 2003. In the fourth quarter of 2006 we received CE marking on the DSU.

In November 2007, the Therapeutic Products Directorate of Health Canada, the Canadian health regulatory agency, approved our OLpur MDHDF filter series for marketing in Canada.

We initiated marketing of our OLpur MD190 in our Target European Market in March 2004. We have established a sales presence in countries throughout our Target European Market, mainly through distributors, and we have developed marketing material in the relevant local languages. We also attend trade shows where we promote our product to several thousand people from the industry. Our OLpur MD220 is a new product that we began selling in our Target European Market in 2006. The OLpur MD220 employs the same technology as our OLpur MD190, but contains a larger surface area of fiber. Because of its larger surface area, the OLpur MD220 may provide greater clearance of certain toxins than the OLpur MD190, and is suitable for patients of larger body mass.

We are currently offering the OLpur MD190 and OLpur MD220 at a price comparable to the existing high performance dialyzers sold in the relevant market. We are unable at this time to determine what the market prices will be in the future.

In the first quarter of 2007, we received approval from the FDA for our Investigational Device Exemption (IDE) application for the clinical evaluation of our OLpur H₂H module and OLpur MD 220 filter. We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We have submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA has requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S

OLpur HD190

OLpur HD190 is our high-flux dialyzer cartridge, designed for use with either hemodialysis or hemodiafiltration machines. The OLpur HD190 incorporates the same materials as our OLpur MD190, but lacks our proprietary

mid-dilution architecture.

OLpur H₂H

OLpur H₂H is our add-on module that converts the most common types of hemodialysis machines — that is, those with volumetric ultrafiltration control — into HDF-capable machines allowing them to use our OLpur MDHDF filter. We have completed our OLpur H₂H design and laboratory bench testing, all of which were conducted by members of our research and development staff. Our design verification of the OLpur H₂H was completed making the device ready for U.S. clinical trial. We completed the patient treatment phase of our

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clinical trial during the second quarter of 2008. We submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

OLpur NS2000

OLpur NS2000 is our standalone HDF machine and associated filter technology, which is in the development stage. The OLpur NS2000 will use a basic HDF platform which will incorporate our H₂H technology including our proprietary substitution fluid systems.

We have also designed and developed proprietary substitution fluid filter cartridges for use with the OLpur NS2000, which have been subjected to pre-manufacturing testing. We will need to obtain the relevant regulatory clearances prior to any market introduction of our OLpur NS2000 in the United States.

Our Water Filtration Product

In January 2006, we introduced our Dual Stage Ultrafilter, or DSU, water filtration system. The DSU incorporates our unique and proprietary dual stage filter architecture. Our research and development work on the OLpur H₂H and MD filter technologies for ESRD therapy provided the foundations for a proprietary multi-stage water filter that we believe is cost effective, extremely reliable, and long-lasting. We believe our DSU can offer a robust solution to various contaminated water and infection control issues. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. We believe our DSU offers four distinct advantages over competitors in the water filtration marketplace:

- 1) the DSU is, to our knowledge, the only water filter that provides the user with a simple sight verification that the filter is properly performing its cleansing function due to our unique dual-stage architecture;
- 2) the DSU filters finer biological contaminants than other filters of which we are aware in the water filtration marketplace;
- 3) the DSU filters relatively large volumes of water before requiring replacement; and
- 4) the DSU continues to protect the user even if the flow is reduced by contaminant volumes, because contaminants do not cross the filtration medium.

With over 5,000 registered hospitals in the United States alone, we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration. We hope to gain a foothold at U.S. and European facilities that seek to become centers of excellence in infection control through the use of our DSU products.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. On July 1, 2009, we received FDA approval of the DSU to be used to filter biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we worked

on the development of a personal potable water purification system for use by warfighters. Work on this project was completed in August 2009 and we have billed approximately \$900,000 during the twenty months ended August 2009. In August 2009, we were awarded a new \$1.8 million research contract from the Office of Naval Research (ONR) for development of a potable dual-stage military water purifying filter. The research contract is an expansion of our former ONR contract which is being performed

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as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of our ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. Approximately \$1,178,000 of revenue has been recognized on this second project since September 2009, of which approximately \$755,000 was recognized during the nine months ended September 30, 2010.

We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We have also begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.

Our Strategy

We believe that current mortality and morbidity statistics, in combination with quality of life issues faced by the ESRD patient, has generated demand for improved ESRD therapies. We also believe that our products and patented technology offer the ability to remove toxins more effectively than current dialysis therapy, in a cost framework competitive with currently available, less-effective therapies. The following are some highlights of our current strategy:

Showcase Product Efficacy in our Target European Market: As of March 2004, we initiated marketing in our Target European Market for the OLpur MD190. There is an opportunity for sales of the OLpur MDHDF filters in our Target European Market because there is an established HDF machine base using disposable dialyzers. We have engaged in a series of clinical trials throughout our Target European Market to demonstrate the superior efficacy of our product. We believe that by demonstrating the effectiveness of our MDHDF filter series we will encourage more customers to purchase our products. Our MDHDF filter series has been applied successfully in over 150,000 treatments to date.

Convert Existing Hemodialysis Machines to Hemodiafiltration: Upon completion of the appropriate documentation for our OLpur H₂H technology, we plan to apply for CE marking for our OLpur H₂H during 2010. We plan to complete our regulatory approval processes in the United States for both our OLpur MDHDF filter series and our OLpur H₂H in 2009. If successfully approved, our OLpur H₂H product will enable HDF therapy using the most common types of hemodialysis machines together with our OLpur MDHDF filters. Our goal is to achieve market penetration by offering the OLpur H₂H for use by healthcare providers inexpensively, thus permitting the providers to use the OLpur H₂H without a large initial capital outlay. We do not expect to generate significant positive margins from sales of OLpur H₂H. We believe H₂H will provide a basis for more MDHDF filter sales. We believe that, if approved, our OLpur H₂H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

Upgrade Dialysis Clinics to OLpur NS2000: We believe the introduction of the OLpur NS2000 will represent a further upgrade in performance for dialysis clinics by offering a cost-effective stand-alone HDF solution that incorporates the benefits of our OLpur H₂H technology. We believe dialysis clinics will entertain OLpur NS2000 as an alternative to their current technology at such dialysis clinic's machine replacement point.

Develop a Foothold in the Healthcare Arena by Offering our DSU as a Means to Control Environment-Acquired Infections: We believe our DSU offers an effective, and cost-effective, solution in conquering certain infection control issues faced by hospitals, nursing homes, assisted living facilities and other patient environments where chemical or heat alternatives have typically failed to adequately address the problem. The DSU provides for simple implementation without large capital expenses. We have established a goal in 2010 to gain a foothold at U.S. and European facilities that seek to become centers of excellence in infection control through the use of our DSU products.

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Pursue our Military Product Development in Conjunction with Value-Adding Partners: For our military development, we are engaging with strategic allies who offer added value with respect to both new product and marketing opportunities. One of our goals in pursuing this project is to maintain and expand our new product development pipeline and achieve new products suitable for both military and domestic applications.

Explore Complementary Product Opportunities: Where appropriate, we are also seeking to leverage our technologies and expertise by applying them to new markets. Our H₂H has potential applications in acute patient care and controlled provision of ultrapure fluids in the field. Our DSU represents a new and complementary product line to our existing ESRD therapy business; we believe the Nephros DSU can offer a robust solution to a broad range of contaminated water and infection control issues.

Manufacturing and Suppliers

We do not intend to manufacture any of our products or components. We have entered into an agreement dated May 12, 2003, with a contract manufacturer (CM) to assemble and produce our OLpur MD190, MD220 or other filter products at our option. The agreement requires us to utilize this CM to manufacture the OLpur MD190s and MD220s or other filter products that we directly market in Europe, or are marketed by our distributor. In addition, our CM will be given first consideration in good faith for the manufacture of OLpur MD190s, MD220s or other filter products that we do not directly market. No less than semiannually, our CM will provide a report to representatives of both parties to the agreement detailing any technical know-how that they have developed that would permit them to manufacture the filter products less expensively and both parties will jointly determine the actions to be taken with respect to these findings. If the fiber wastage with respect to the filter products manufactured in any given year exceeds 5%, then the CM will reimburse us up to half of the cost of the quantity of fiber represented by excess wastage. The CM will manufacture the OLpur MD190 or other filter products in accordance with the quality standards outlined in the agreement. Upon recall of any OLpur MD190 or other filter product due to manufactured products that fail to conform to the required specifications or having failed to manufacture one or more products in accordance with any applicable laws, the CM will be responsible for the cost of recall. The agreement also requires that we maintain certain minimum product-liability insurance coverage and that we indemnify our CM against certain liabilities arising out of our products that they manufacture, providing they do not arise out of the CM's breach of the agreement, negligence or willful misconduct. The term of the agreement is through May 12, 2010, with successive automatic one-year renewal terms, until either party gives the other notice that it does not wish to renew at least 90 days prior to the end of the term. The agreement may be terminated prior to the end of the term by either party upon the occurrence of certain insolvency-related events or breaches by the other party. Although we have no separate agreement with respect to such activities, our CM has also been manufacturing our H₂H filters and DSU in limited quantities.

We also entered into an agreement in December 2003, and amended in June 2005, with a fiber supplier (FS), a manufacturer of medical and technical membranes for applications like dialysis, to continue to produce the fiber for the OLpur MDHDF filter series. Pursuant to the agreement, FS is our exclusive provider of the fiber for the OLpur MDHDF filter series in the European Union as well as certain other territories. On January 18, 2010 the FS notified us that they are exercising their right to terminate the supply agreement. Termination of the supply agreement will be effective on July 18, 2010. The FS noted their desire to negotiate and execute a new supply agreement with us. Negotiations on terms of a new supply agreement have been taking place and we expect to execute a new agreement with the FS, although we cannot assure you that we will be able to do so.

Sales and Marketing

We have established a distributor network to sell ESRD products in our Target European Market and, when regulatory approval is obtained, intend to establish a similar arrangement in the United States. On February 25, 2010, we announced that we signed an exclusive distribution agreement with Bellco Health Care Inc. (BHC Medical) to sell and market Nephros OLpur™ MD 220 filter for on-line HDF therapy in Canada. Under the terms of the Agreement, Nephros and BHC Medical will work together to promote the sale and distribution of Nephros OLpur™ MD 220 filters through various advertising and promotional campaigns and by working with and training BHC's sales and support staff.

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We have established a customer service and financial processing facility in Dublin, Ireland, available to our customer base in our Target European Market. We have also initiated and completed various clinical studies designed to continue our evaluation of effectiveness of the OLpur MDHDF filters when used on ESRD patients in our Target European Market. These studies are intended to provide us, and have provided us, with valuable information regarding the efficacy of our product and an opportunity to introduce OLpur MDHDF filters to medical institutions in our Target European Market. We have engaged a medical advisor to help us in structuring our clinical study protocols and to support physicians' technical inquiries regarding our products.

We are marketing our ESRD products primarily to healthcare providers such as hospitals, dialysis clinics, managed care organizations, and nephrology physician groups. We ship our products to these customers both directly from our manufacturer, where this is cost-effective, our distributors, and a public warehouse facility in the U.S.

Our New Jersey office oversees sales and marketing activity of our DSU products. We are in discussions with several medical products and filtration products suppliers to act as non-exclusive distributors of our DSU products to medical institutions. For each prospective market for our DSU products, we are pursuing alliance opportunities for joint product development and distribution. Our DSU manufacturer in Europe shares certain intellectual property rights with us for one of our DSU designs.

Research and Development

Our research and development efforts continue on several fronts directly related to our current product lines. We are also working on additional machine devices, next-generation user interface enhancements and other product enhancements.

In the area of water filtration, we have finalized our initial water filtration product line for the healthcare sector.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we worked on the development of a personal potable water purification system for use by warfighters. Work on this project was completed in August 2009 and we have billed approximately \$900,000 during the twenty months ended August 2009. In August 2009, we were awarded a new \$1.8 million research contract from the Office of Naval Research (ONR) for development of a potable dual-stage military water purifying filter. The research contract is an expansion of our former ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of our ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. Approximately \$423,000 has been billed to this second project during the four months ended December 31, 2009.

We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We have also begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.

Our research and development expenditures were primarily related to development expenses associated with the H₂H machine and related salary expenses for the years ended December 31, 2009 and 2008 and were \$280,000 and \$1,977,000, respectively, and were \$259,000 and \$212,000, respectively, for the nine months ended September 30, 2010 and 2009.

Competition

The dialyzer and renal replacement therapy market is subject to intense competition. Accordingly, our future success will depend on our ability to meet the clinical needs of physicians and nephrologists, improve patient outcomes and remain cost-effective for payors.

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We compete with other suppliers of ESRD therapies, supplies and services. These suppliers include Fresenius Medical Care AG, and Gambro AB, currently two of the primary machine manufacturers in hemodialysis. At present, Fresenius Medical Care AG and Gambro AB also manufacture HDF machines.

The markets in which we sell our dialysis products are highly competitive. Our competitors in the sale of hemodialysis products include Gambro AB, Baxter International Inc., Asahi Kasei Medical Co. Ltd., Bellco S.p.A., a subsidiary of the Sorin group, B. Braun Melsungen AG, Nipro Corporation Ltd., Nikkiso Co., Ltd., Terumo Corporation and Toray Medical Co., Ltd.

Other competitive considerations include pharmacological and technological advances in preventing the progression of ESRD in high-risk patients such as those with diabetes and hypertension, technological developments by others in the area of dialysis, the development of new medications designed to reduce the incidence of kidney transplant rejection and progress in using kidneys harvested from genetically-engineered animals as a source of transplants.

We are not aware of any other companies using technology similar to ours in the treatment of ESRD. Our competition would increase, however, if companies that currently sell ESRD products, or new companies that enter the market, develop technology that is more efficient than ours. We believe that in order to become competitive in this market, we will need to develop and maintain competitive products and take and hold sufficient market share from our competitors. Therefore, we expect our methods of competing in the ESRD marketplace to include:

continuing our efforts to develop, have manufactured and sell products which, when compared to existing products, perform more efficiently and are available at prices that are acceptable to the market;
displaying our products and providing associated literature at major industry trade shows in the United States, our Target European Market and Canada;
initiating discussions with dialysis clinic medical directors, as well as representatives of dialysis clinical chains, to develop interest in our products;
offering the OLpur H₂H at a price that does not provide us with significant positive margins in order to encourage adoption of this product and associated demand for our dialyzers; and
pursuing alliance opportunities in certain territories for distribution of our products and possible alternative manufacturing facilities.

With respect to the water filtration market, we expect to compete with companies that are well entrenched in the water filtration domain. These companies include Pall Corporation, which manufactures end-point water filtration systems, as well as CUNO (a 3M Company) and US Filter (a Siemens business). Our methods of competition in the water filtration domain include:

developing and marketing products that are designed to meet critical and specific customer needs more effectively than competitive devices;
offering unique attributes that illustrate our product reliability, user-friendliness, and performance capabilities;
selling products to specific customer groups where our unique product attributes are mission-critical; and
pursuing alliance opportunities for joint product development and distribution.

Intellectual Property

Patents

We protect our technology and products through patents and patent applications. In addition to the United States, we also applied for patents in other jurisdictions, such as the European Patent Office, Canada and Japan, to the extent we deem appropriate. We have built a portfolio of patents and applications covering our products, including their

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We believe that our patent strategy will provide a competitive advantage in our target markets, but our patents may not be broad enough to cover our competitors' products and may be subject to invalidation claims. Our U.S. patents for the Method and Apparatus for Efficient Hemodiafiltration and for the Dual-Stage Filtration Cartridge, have claims that cover the OLpur MDHDF filter series and the method of hemodiafiltration employed in the operation of the products. Although there are pending applications with claims to the present embodiments of the OLpur H₂H and the OLpur NS2000 products, these products are still in the development stage and we cannot determine if the applications (or the patents that we may issue on them) will also cover the ultimate commercial embodiment of these products. In addition, technological developments in ESRD therapy could reduce the value of our intellectual property. Any such reduction could be rapid and unanticipated. We have applied for patents on our DSU water filtration products to cover various applications in residential, commercial, and remote environments.

As of September 30, 2010, we have sixteen issued U.S. patents; one issued Eurasian patent; four Mexican patents, four South Korean patents, three Russian patents, five Chinese patents, five French patents, six German patents, four Israeli patents, five Italian patents, two Spanish patents, six United Kingdom patents, eight Japanese patents, two Hong Kong patents, and nine Canadian patents. Our issued U.S. patents expire between 2018 and 2022. In addition, we have four pending U.S. patent applications, ten pending patent applications in Canada, eight pending patent applications in the European Patent Office, five pending patent applications in Brazil, three pending patent applications in China, nine pending patent applications in Japan, three pending patent applications in Mexico, one pending patent application in South Korea, one pending patent application in Hong Kong, two pending patent applications in India, two pending patent applications in Israel and one pending patent application in Australia. Our pending patent applications relate to a range of dialysis technologies, including cartridge configurations, cartridge assembly, substitution fluid systems, and methods to enhance toxin removal. We also have pending patent applications on our DSU water filtration system and pump/filter applications related to our Office of Naval Research project.

We have filed U.S. and International patent applications for a redundant ultra filtration device that was jointly invented by one of our employees and an employee of our CM. We and our CM are negotiating commercial arrangements pertaining to the invention and the patent applications.

Trademarks

As of September 30, 2010, we secured registrations of the trademarks CENTRAPUR, H₂H, OLpur and the Arrows Logo in the European Union. Applications for these trademarks are pending registration in the United States. We also have applications for registration of a number of other marks pending in the United States Patent and Trademark Office.

Governmental Regulation

The research and development, manufacturing, promotion, marketing and distribution of our ESRD therapy products in the United States, our Target European Market and other regions of the world are subject to regulation by numerous governmental authorities, including the FDA, the European Union and analogous agencies.

United States

The FDA regulates the manufacture and distribution of medical devices in the United States pursuant to the FDC Act. All of our ESRD therapy products are regulated in the United States as medical devices by the FDA under the FDC Act. Under the FDC Act, medical devices are classified in one of three classes, namely Class I, II or III, on the basis of

the controls deemed necessary by the FDA to reasonably ensure their safety and effectiveness.

Class I devices are medical devices for which general controls are deemed sufficient to ensure their safety and effectiveness. General controls include provisions related to (1) labeling, (2) producer registration, (3) defect notification, (4) records and reports and (5) quality service requirements, or QSR.

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Class II devices are medical devices for which the general controls for the Class I devices are deemed not sufficient to ensure their safety and effectiveness and require special controls in addition to the general controls. Special controls include provisions related to (1) performance and design standards, (2) post-market surveillance, (3) patient registries and (4) the use of FDA guidelines.

Class III devices are the most regulated medical devices and are generally limited to devices that support or sustain human life or are of substantial importance in preventing impairment of human health or present a potential, unreasonable risk of illness or injury. Pre-market approval by the FDA is the required process of scientific review to ensure the safety and effectiveness of Class III devices.

Before a new medical device can be introduced to the market, FDA clearance of a pre-market notification under Section 510(k) of the FDC Act or FDA clearance of a pre-market approval, or PMA, application under Section 515 of the FDC Act must be obtained. A Section 510(k) clearance will be granted if the submitted information establishes that the proposed device is substantially equivalent to a legally marketed Class I or Class II medical device or to a Class III medical device for which the FDA has not called for pre-market approval under Section 515. The Section 510(k) pre-market clearance process is generally faster and simpler than the Section 515 pre-market approval process.

We understand that it generally takes four to 12 months from the date a Section 510(k) notification is accepted for filing to obtain Section 510(k) pre-market clearance, as is the case with our OLpur H₂H module and OLpur MD 220 filter, and that it could take several years from the date a Section 515 application is accepted for filing to obtain Section 515 pre-market approval, although it may take longer in both cases.

We expect that all of our ESRD therapy products and our DSU will be categorized as Class II devices and that these products will not require clearance of pre-market approval applications under Section 515 of the FDC Act, but will be eligible for marketing clearance through the pre-market notification process under Section 510(k). We have determined that we are eligible to utilize the Section 510(k) pre-market notification process based upon our ESRD therapy and DSU products' substantial equivalence to previously legally marketed devices in the United States.

However, we cannot assure you:

that we will not need to reevaluate the applicability of the Section 510(k) pre-market notification process to our ESRD therapy and DSU products in the future;

that the FDA will agree with our determination that we are eligible to use the Section 510(k) pre-market notification process; or

that the FDA will not in the future require us to submit a Section 515 pre-market approval application, which would be a more costly, lengthy and uncertain approval process.

The FDA has recently been requiring a more rigorous demonstration of substantial equivalence than in the past and may request clinical data to support pre-market clearance. As a result, the FDA could refuse to accept for filing a Section 510(k) notification made by us or request the submission of additional information. The FDA may determine that any one of our proposed ESRD therapy products is not substantially equivalent to a legally marketed device or that additional information is needed before a substantial equivalence determination can be made. A not substantially equivalent determination, or request for additional data, could prevent or delay the market introduction of our products that fall into this category, which in turn could have a material adverse effect on our potential sales and revenues.

Moreover, even if the FDA does clear one or all of our products under the Section 510(k) process, it may clear a product for some procedures but not others or for certain classes of patients and not others.

For any devices cleared through the Section 510(k) process, modifications or enhancements that could significantly affect the safety or effectiveness of the device or that constitute a major change to the intended use of the device will require a new Section 510(k) pre-market notification submission. Accordingly, if we do obtain Section 510(k) pre-market clearance for any of our ESRD therapy and DSU products, we will need to submit another Section 510(k) pre-market notification if we significantly affect that product's safety or effectiveness through subsequent modifications or enhancements.

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If human clinical trials of a device are required in connection with a Section 510(k) notification and the device presents a significant risk, the sponsor of the trial (usually the manufacturer or distributor of the device) will need to file an IDE application prior to commencing human clinical trials. The IDE application must be supported by data, typically including the results of animal testing and/or laboratory bench testing. If the IDE application is approved, human clinical trials may begin at a specific number of investigational sites with a specific number of patients, as specified in the IDE. Sponsors of clinical trials are permitted to sell those devices distributed in the course of the study provided such compensation does not exceed recovery of the costs of manufacture, research, development and handling. An IDE supplement must be submitted to the FDA before a sponsor or investigator may make a change to the investigational plan that may affect its scientific soundness or the rights, safety or welfare of subjects. We submitted our original IDE application to the FDA for our OLpur H₂H hemodiafiltration module and OLpur MD220 filter in May 2006. The FDA answered our application with additional questions in June 2006, and we submitted responses to the FDA questions in December 2006. In January 2007, we received conditional approval for our IDE application from the FDA to begin human clinical trials of our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. In March 2007, we received full approval on our IDE application from the FDA to begin human clinical trials of our OLpur H₂H hemodiafiltration module and OLpur MD220 hemodiafilter. We completed the patient treatment phase of our clinical trials during the second quarter of 2008 and filed our 510(k) applications with respect to the OLpur MDHDF filter series and the OLpur H₂H module in November 2008. No IDE was required for our DSU product. On July 1, 2009, we received FDA approval of the DSU to be used to filter biological contaminants from water and bicarbonate concentrate used in hemodialysis procedures. We hope to achieve U.S. regulatory approval of our OLpur H₂H module and OLpur MD 220 filter products during 2010. Following its review of our applications, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. On June 30, 2010, we received a final decision letter from the FDA for our 510(k) submission, which stated that the FDA could not reach a substantial equivalence determination for our hemodiafiltration, or HDF, system. An in-person meeting with the FDA took place on September 10, 2010 to discuss the issues raised in the FDA letter. We are evaluating our future course of action. The current decision by the U.S. FDA with regard to our HDF system does not impact our ability to market and sell our mid-dilution (MD) filters for hemodiafiltration procedures outside of the U.S.

The Section 510(k) pre-market clearance process can be lengthy and uncertain. It will require substantial commitments of our financial resources and management's time and effort. Significant delays in this process could occur as a result of factors including:

- our inability to timely raise sufficient funds;
- the FDA's failure to schedule advisory review panels;
- changes in established review guidelines;
- changes in regulations or administrative interpretations; or

determinations by the FDA that clinical data collected is insufficient to support the safety and effectiveness of one or more of our products for their intended uses or that the data warrants the continuation of clinical studies.

Delays in obtaining, or failure to obtain, requisite regulatory approvals or clearances in the United States for any of our products would prevent us from selling those products in the United States and would impair our ability to generate funds from sales of those products in the United States, which in turn could have a material adverse effect on our business, financial condition, and results of operations.

The FDC Act requires that medical devices be manufactured in accordance with the FDA's current QSR regulations which require, among other things, that:

- the design and manufacturing processes be regulated and controlled by the use of written procedures;

the ability to produce medical devices which meet the manufacturer's specifications be validated by extensive and detailed testing of every aspect of the process;

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any deficiencies in the manufacturing process or in the products produced be investigated; detailed records be kept and a corrective and preventative action plan be in place; and manufacturing facilities be subject to FDA inspection on a periodic basis to monitor compliance with QSR regulations.

If violations of the applicable QSR regulations are noted during FDA inspections of our manufacturing facilities or the manufacturing facilities of our contract manufacturers, there may be a material adverse effect on our ability to produce and sell our products.

Before the FDA approves a Section 510(k) pre-market notification, the FDA is likely to inspect the relevant manufacturing facilities and processes to ensure their continued compliance with QSR. Although some of the manufacturing facilities and processes that we expect to use to manufacture our ESRD and DSU filters have been inspected and certified by a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, they have not all been inspected by the FDA. Similarly, although some of the facilities and processes that we expect to use to manufacture our OLpur H₂H have been inspected by the FDA, they have not all been inspected by any notified body. A notified body is a group accredited and monitored by governmental agencies that inspects manufacturing facilities and quality control systems at regular intervals and is authorized to carry out unannounced inspections. Even after the FDA has cleared a Section 510(k) submission, it will periodically inspect the manufacturing facilities and processes for compliance with QSR. In addition, in the event that additional manufacturing sites are added or manufacturing processes are changed, such new facilities and processes are also subject to FDA inspection for compliance with QSR. The manufacturing facilities and processes that will be used to manufacture our products have not yet been inspected by the FDA for compliance with QSR. We cannot assure you that the facilities and processes used by us will be found to comply with QSR and there is a risk that clearance or approval will, therefore, be delayed by the FDA until such compliance is achieved.

In addition to the requirements described above, the FDC Act requires that:

all medical device manufacturers and distributors register with the FDA annually and provide the FDA with a list of those medical devices which they distribute commercially; information be provided to the FDA on death or serious injuries alleged to have been associated with the use of the products, as well as product malfunctions that would likely cause or contribute to death or serious injury if the malfunction were to recur; and certain medical devices not cleared with the FDA for marketing in the United States meet specific requirements before they are exported.

European Union

The European Union began to harmonize national regulations comprehensively for the control of medical devices in member nations in 1993, when it adopted its Medical Devices Directive 93/42/EEC. The European Union directive applies to both the manufacturer's quality assurance system and the product's technical design and discusses the various ways to obtain approval of a device (dependent on device classification), how to properly CE Mark a device and how to place a device on the market. We have subjected our entire business in our Target European Market to the most comprehensive procedural approach in order to demonstrate the quality standards and performance of our operations, which we believe is also the fastest way to launch a new product in the European Community.

The regulatory approach necessary to demonstrate to the European Union that the organization has the ability to provide medical devices and related services that consistently meet customer requirements and regulatory requirements applicable to medical devices requires the certification of a full quality management system by a notified body. We engaged TÜV Rheinland of North America, Inc. (TÜV Rheinland) as the notified body to assist us in

obtaining certification to the International Organization for Standardization, or ISO, 13485/2003 standard, which demonstrates the presence of a quality management system that can be used by an organization for design and development, production, installation and servicing of medical devices and the design, development and provision of related services.

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European Union requirements for products are set forth in harmonized European Union standards and include conformity to safety requirements, physical and biological properties, construction and environmental properties, and information supplied by the manufacturer. A company demonstrates conformity to these requirements, with respect to a product, by pre-clinical tests, biocompatibility tests, qualification of products and packaging, risk analysis and well-conducted clinical investigations approved by ethics committees.

Once a manufacturer's full quality management system is determined to be in compliance with ISO 13485/2003 and other statutory requirements, and the manufacturer's products conform with harmonized European standards, the notified body will recommend and document such conformity. The manufacturer will receive a CE marking and ISO certifications, and then may place a CE mark on the relevant products. The CE mark, which stands for *Conformité Européenne*, demonstrates compliance with the relevant European Union requirements. Products subject to these provisions that do not bear the CE mark cannot be imported to, or sold or distributed within, the European Union.

In July 2003, we received a certification from TÜV Rheinland that our quality management system conforms with the requirements of the European Community. At the same time, TÜV Rheinland approved our use of the CE marking with respect to the design and production of high permeability hemodialyzer products for ESRD therapy. As of the date of this prospectus, the manufacturing facilities and processes that we are using to manufacture our OLpur MDHDF filter series have been inspected and certified by a notified body.

Regulatory Authorities in Regions Outside of the United States and the European Union

We also plan to sell our ESRD therapy products in foreign markets outside the United States which are not part of the European Union. Requirements pertaining to medical devices vary widely from country to country, ranging from no health regulations to detailed submissions such as those required by the FDA. We believe the extent and complexity of regulations for medical devices such as those produced by us are increasing worldwide. We anticipate that this trend will continue and that the cost and time required to obtain approval to market in any given country will increase, with no assurance that such approval will be obtained. Our ability to export into other countries may require compliance with ISO 13485, which is analogous to compliance with the FDA's QSR requirements. In November 2007, the Therapeutic Products Directorate of Health Canada, the Canadian health regulatory agency, approved our OLpur MDHDF filter series for marketing in Canada. Other than the CE marking and Canadian approval of our OLpur MDHDF filter products, we have not obtained any regulatory approvals to sell any of our products and there is no assurance that any such clearance or certification will be issued.

Reimbursement

In both domestic markets and markets outside of the United States, sales of our ESRD therapy products will depend in part, on the availability of reimbursement from third-party payors. In the United States, ESRD providers are reimbursed through Medicare, Medicaid and private insurers. In countries other than the United States, ESRD providers are also reimbursed through governmental and private insurers. In countries other than the United States, the pricing and profitability of our products generally will be subject to government controls. Despite the continually expanding influence of the European Union, national healthcare systems in its member nations, reimbursement decision-making included, are neither regulated nor integrated at the European Union level. Each country has its own system, often closely protected by its corresponding national government.

Product Liability and Insurance

The production, marketing and sale of kidney dialysis products have an inherent risk of liability in the event of product failure or claim of harm caused by product operation. We have acquired product liability insurance for our products in the amount of \$5 million. A successful claim in excess of our insurance coverage could materially deplete our assets. Moreover, any claim against us could generate negative publicity, which could decrease the demand for our products, our ability to generate revenues and our profitability.

Some of our existing and potential agreements with manufacturers of our products and components of our products do or may require us (1) to obtain product liability insurance or (2) to indemnify manufacturers against liabilities resulting from the sale of our products. If we are not able to maintain adequate product

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liability insurance, we will be in breach of these agreements, which could materially adversely affect our ability to produce our products. Even if we are able to obtain and maintain product liability insurance, if a successful claim in excess of our insurance coverage is made, then we may have to indemnify some or all of our manufacturers for their losses, which could materially deplete our assets.

Employees

As of November 30, 2010, we employed a total of 9 employees, 7 of whom were full time and 2 who are employed on a part-time basis. We also engaged 2 consultants on an ongoing basis. Of the 11 total employees and consultants, 4 were employed in a sales/marketing/customer support capacity, 3 in general and administrative and 4 in research and development. Our President and Chief Executive Officer resigned on March 30, 2010, as reported in our Current Report on Form 8-K filed on March 30, 2010. One of our directors has been serving as our acting Chief Executive Officer since April 6, 2010.

Properties

Our U.S. facilities are located at 41 Grand Avenue, River Edge, New Jersey, 07661 and consist of approximately 4,688 square feet of space. The term of the rental agreement is for three years commencing December 2008 with a monthly cost of approximately \$7,423. We use our facilities to house our corporate headquarters and research facilities.

Our facilities in our Target European Market are currently located at 6 Eaton House, Main Street, Rathcoole, Co. Dublin, Ireland, and consist of approximately 650 square feet of space. The lease agreement was entered into on November 30, 2008. The lease term is 6 months beginning March 1, 2009 and is renewable for 6 month terms with a 3 month notice to discontinue. Our monthly cost is 735 Euro (approximately \$1,000).

We use our facilities to house our accounting, operations and customer service departments. We believe this space will be adequate to meet our needs. We do not own any real property for use in our operations or otherwise.

Legal Proceedings

There are no other currently pending legal proceedings and, as far as we are aware, no governmental authority is contemplating any proceeding to which we are a party or to which any of our properties is subject.

TABLE OF CONTENTS**MANAGEMENT****Board of Directors**

Our board of directors is divided into three classes, each class as nearly equal in number as practicable. Our board currently consist of four members. Each year, one class is elected to serve for three years. The business address for each director for matters regarding our company is 41 Grand Avenue, River Edge, New Jersey 07661.

Although our common stock is no longer listed on NYSE Alternext and is traded on Over-the-Counter Bulletin Board, our Board of Directors has determined to apply NYSE Alternext's test for director independence to all of our directors. Using that test, the Board has determined that all of our directors are independent under NYSE Alternext's rules, as of the date of this prospectus, other than Paul A. Mieval, who began serving as our acting Chief Executive Officer on April 6, 2010. As part of such determination of independence, our Board has affirmatively determined that none of our directors has a relationship with our company that would interfere with the exercise of independent judgment in carrying out his responsibility as a director.

Class I Directors Term Expiring 2011

Name	Age (as of Director 11/30/10)	Since	Business Experience For Last Five Years
Arthur H. Amron	53	2007	Arthur H. Amron has served as a director of our company since September 2007. Mr. Amron is a partner of Wexford Capital LP, a position he has held since 1999, and serves as its General Counsel, a position he has held since joining Wexford in 1994. Mr. Amron also actively participates in various private equity transactions, particularly in the bankruptcy and restructuring areas, and has served on the boards and creditors committees of a number of public and private companies in which Wexford has held investments. From 1991 to 1994, Mr. Amron was an Associate at Schulte Roth & Zabel LLP, specializing in corporate and bankruptcy law, and from 1984 to 1991, Mr. Amron was an Associate at Debevoise & Plimpton LLP specializing in corporate litigation and bankruptcy law. Mr. Amron holds a JD from Harvard University, a BA in political theory from Colgate University and is a member of the New York Bar. Among other experience, qualifications, attributes and skills, Mr. Amron's legal training and experience in the capital markets, as well as his experience serving on boards of directors of other public companies, led to the conclusion of our Board that he should serve as a director of our company in light of our business and structure.

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Name	Age (as of Director 11/30/10) Since	Business Experience For Last Five Years
James S. Scibetta	45 2007	<p>James S. Scibetta has served as a director of our company since November 2007 and as Chairman of our Board since September 2008. Since August 2008, Mr. Scibetta has been the Chief Financial Officer of Pacira Pharmaceuticals, Inc. Prior to that, Mr. Scibetta was Chief Financial Officer of Bioenvision, Inc. from December 2006 until its acquisition by Genzyme, Inc. in October 2007. From September 2001 to November 2006, Mr. Scibetta was Executive Vice President and CFO of Merrimack Pharmaceuticals, Inc., and he was a member of the Board of Directors of Merrimack from April 1998 to March 2004. Mr. Scibetta formerly served as a senior investment banker at Shattuck Hammond Partners, LLC and PaineWebber Inc., providing capital acquisition, mergers and acquisitions, and strategic advisory services to healthcare companies. From 2001 to 2008, Mr. Scibetta served as a member of the Board of Directors and Audit Committee Chairman of Labopharm, Inc. (Nasdaq: DDSS). Mr. Scibetta holds a B.S. in Physics from Wake Forest University, and an M.B.A. in Finance from the University of Michigan. He completed executive education studies in the Harvard Business School Leadership & Strategy in Pharmaceuticals and Biotechnology program. Among other experience, qualifications, attributes and skills, Mr. Scibetta's extensive management experience in the pharmaceutical industry, as well as his investment banking experience, led to the conclusion of our Board that he should serve as a director of our company in light of our business and structure.</p>

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Class II Director Term Expiring 2012

Name	Age (as of Director 11/30/10) Since	Business Experience For Last Five Years
Paul A. Mieyal	40 2007	<p>Paul A. Mieyal has served as a director of our company since September 2007 and has served as an acting Chief Executive Officer since April 6, 2010. Dr. Mieyal has been a Vice President of Wexford Capital LP since October 2006. From January 2000 through September 2006, he was Vice President in charge of healthcare investments for Wechsler & Co., Inc., a private investment firm and registered broker-dealer. In his employment with Wexford and Wechsler, Dr. Mieyal has worked closely with both private and public pharmaceutical and other healthcare companies, advising them on regulatory development, corporate and financial matters. Dr. Mieyal is also a director of Nile Therapeutics, Inc. and OncoVista Innovative Therapies, Inc., which are both publicly traded companies. Dr. Mieyal received his Ph.D. in pharmacology from New York Medical College, a B.A. in chemistry and psychology from Case Western Reserve University, and is a Chartered Financial Analyst. Since April 6, 2010, Dr. Mieyal has served as our acting Chief Executive Officer. Among other experience, qualifications, attributes and skills, Dr. Mieyal's pharmacology and chemistry education, his experience in investment banking in the healthcare industry, as well as his experience serving on board of directors of another public company, led to the conclusion of our Board that he should serve as a director of our company in light of our business and structure.</p>

TABLE OF CONTENTS**Class III Directors Term Expiring 2010**

Name	Age (as of 11/30/10)	Director Since	Business Experience For Last Five Years
Lawrence J. Centella	69	2001	Lawrence J. Centella has served as a director of our company since January 2001. Mr. Centella serves as president of Renal Patient Services, LLC, a company that owns and operates dialysis centers, and has served in such capacity since June 1998. From 1997 to 1998, Mr. Centella served as executive vice president and chief operating officer of Gambro Healthcare, Inc., an integrated dialysis company that manufactured dialysis equipment, supplied dialysis equipment and operated dialysis clinics. From 1993 to 1997, Mr. Centella served as president and chief executive officer of Gambro Healthcare Patient Services, Inc. (formerly REN Corporation). Prior to that, Mr. Centella served as president of COBE Renal Care, Inc., Gambro Hospital, Inc., LADA International, Inc. and Gambro, Inc. Mr. Centella is also the founder of LADA International, Inc. Mr. Centella received a B.S. from DePaul University. Among other experience, qualifications, attributes and skills, Mr. Centella's extensive experience in managing companies engaged in the business of dialysis centers and equipment, led to the conclusion of our Board that he should serve as a director of our company in light of our business and structure.

Executive Officers

The following table sets forth certain information concerning our non-director executive officer:

Name	Age (as of 11/30/10)	Position with Nephros and Business Experience for Last Five Years
Gerald J. Kochanski	57	Gerald J. Kochanski has served as our Chief Financial Officer since April 2008 and served as our acting Chief Executive Officer from March 31 through April 5, 2010. Prior to joining us, Mr. Kochanski served as the Financial Services Director of Lordi Consulting LLC, a national consulting firm, from February 2007 through February 2008. From October 2004 until December 2006, Mr. Kochanski was the Chief Financial Officer of American Water Enterprises, Inc., a business unit of a privately owned company in the water and wastewater treatment industry. From November 1998 through September 2004, Mr. Kochanski was the Chief Financial Officer of Scanvec Amiable Ltd., a publicly traded provider of software to the signmaking, digital printing and engraving industries. Mr. Kochanski is a Certified Public Accountant and received his B.S. in Accounting and his M.B.A. in

Finance from La Salle University.

Beginning on April 6, 2010, our director Paul Mieyal began serving as our acting Chief Executive Officer.

TABLE OF CONTENTS**EXECUTIVE COMPENSATION****Summary Compensation Table**

The following table sets forth all compensation earned in the fiscal years ended December 31, 2009 and 2008 by our Named Executive Officers.

Summary Compensation Table

Name and Principal Position	Year	Salary (\$)	Bonus ⁽¹⁾ (\$)	Option Awards ⁽²⁾ (\$)	All Other Compensation ⁽³⁾ (\$)	Total
Norman J. Barta ⁽⁴⁾ President and Chief Executive Officer	2009					
	2008	\$ 373,846	\$ 18,000	\$	\$ 37,212	\$ 429,058
Ernest A. Elgin III ⁽⁵⁾ President and Chief Executive Officer	2009	\$ 240,000		\$ 160,048	\$ 23,876	\$ 423,924
	2008	\$ 70,000	\$ 35,000	\$ 210,000	\$ 7,073	\$ 322,073
Mark W. Lerner ⁽⁶⁾ Chief Financial Officer	2009					
	2008	\$ 113,750			\$ 1,105	\$ 114,855
Gerald J. Kochanski ⁽⁷⁾ Chief Financial Officer	2009	\$ 190,550		\$ 48,614	\$ 32,059	\$ 271,223
	2008	\$ 138,750	\$ 18,000	\$ 143,747	\$ 19,553	\$ 320,050

(1) The amounts in this column reflect decisions approved by our Compensation Committee and are based on an analysis of the executive's contribution to Nephros during fiscal 2008 and 2009.

(2) The amount reported is the aggregate grant date fair value of the options granted, computed in accordance with FASB ASC Topic 718.

(3) See table below for details on Other Compensation.

(4) Mr. Barta resigned as President and Chief Executive Officer and as a member of our Board of Directors on September 15, 2008.

(5) Mr. Elgin became our President and Chief Executive Officer on September 15, 2008 and resigned on March 30, 2010.

(6) Mr. Lerner resigned on April 28, 2008.

(7) Mr. Kochanski became our Chief Financial Officer as of April 1, 2008.

Other Compensation**Option Holdings and Fiscal Year-End Option Values**

The following table shows information concerning unexercised options outstanding as of December 31, 2009 for each of our named executive officers.

TABLE OF CONTENTS**Outstanding Equity Awards at Fiscal Year-End 2009**

Name	Option Awards			
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Option Exercise Price (\$)	Option Expiration Date
Ernest A. Elgin III	187,500	562,500	\$ 0.37	9/15/18
Ernest A. Elgin III		75,000	\$ 0.13	1/6/19
Ernest A. Elgin III		250,000	\$ 0.77	12/31/19
Gerald J. Kochanski	62,500	187,500	\$ 0.75	4/1/18
Gerald J. Kochanski		25,000	\$ 0.13	1/6/19
Gerald J. Kochanski		75,570	\$ 0.77	12/31/19

Employment and Change in Control Agreements

We have used employment agreements as a means to attract and retain executive officers. These are more fully discussed below. We believe that these agreements provide our executive officers with the assurance that their employment is a long-term arrangement and provide us with the assurance that the officers' services will be available to us for the foreseeable future.

Agreement with Mr. Ernest Elgin III

We entered into an employment agreement with Mr. Elgin, dated as of September 15, 2008, having a term of three years. Mr. Elgin resigned on March 30, 2010. As part of his resignation, Mr. Elgin and we mutually agreed to terminate his employment agreement effective March 30, 2010. In connection with Mr. Elgin's resignation, we entered into a separation, release and consulting agreement with him, pursuant to which we paid Mr. Elgin his current salary through April 16, paid his applicable COBRA premiums through April 30, 2010 and, during any time that his COBRA coverage is in effect in 2010, will reimburse him for out-of-pocket payments made in 2010 under his healthcare coverage up to \$5,000, which is the deductible under the healthcare coverage. Mr. Elgin will be available to consult with us for up to 15 hours a week until May 31, 2010, for which we will pay Mr. Elgin at the rate of 50% of his current salary from April 16 to May 31, 2010. We have the right to extend the consulting period for an additional four months during which Mr. Elgin would be available to consult with us for up to 7.5 hours a week and during which we would pay Mr. Elgin 25% of his current salary. We may terminate this consulting arrangement at any time upon 30 days notice.

Agreement with Mr. Gerald Kochanski

Mr. Kochanski began serving as our chief financial officer on April 28, 2008, pursuant to an employment agreement dated as of April 1, 2008. Mr. Kochanski's initial annual base salary is \$185,000. For the first year of Mr. Kochanski's employment, we will pay him a non-accountable commuting allowance of \$10,000. In addition, we agreed to pay up to \$10,000 of Mr. Kochanski's moving costs. Mr. Kochanski may be awarded a bonus based on performance. Pursuant to the employment agreement, we granted Mr. Kochanski an option to purchase 250,000 shares of our common stock

under our 2004 Equity Incentive Plan. The option vests in four equal annual installments of 62,500 shares on each of March 31, 2009, March 31, 2010, March 31, 2011 and March 31, 2012 provided that he remains employed by us at such time, and provided further that such options shall become exercisable in full immediately upon the occurrence of a change in control (as defined in our 2004 Stock Incentive Plan).

Mr. Kochanski's agreement provides that upon termination by us for cause or disability (as such terms are defined in the agreement) or by Mr. Kochanski for any reason other than his exercise of the change of control termination option (as defined in the agreement), then we shall pay him only his accrued but unpaid base salary and bonuses for services rendered through the date of termination, his unvested options shall immediately be cancelled and forfeited and his vested options shall remain exercisable for 90 days after such termination. If Mr. Kochanski's employment is terminated by his death or by his voluntary resignation or retirement other than upon his exercise of the change of control termination option, then we shall pay him his

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accrued but unpaid base salary for services rendered through the date of termination and any bonuses due and payable through such date of termination and those that become due and payable within 90 days after such date. If we terminate Mr. Kochanski's employment for any other reason, then, provided he continues to abide by certain confidentiality and non-compete provisions of his agreement and executes a release, he shall be entitled to: (1) any accrued but unpaid base salary for services rendered through the date of termination; and (2) the continued payment of his base salary, in the amount as of the date of termination, for a period of either three months or, if he has been employed under the agreement for at least one year, six months subsequent to the termination date or until the end of the remaining term of the agreement if sooner.

Upon any sale of all or substantially all of our business or assets, whether direct or indirect, by purchase, merger, consolidation or otherwise, Mr. Kochanski shall have a period of time in which to discuss, negotiate and confer with any successor entity regarding the terms and conditions of his continued employment. If Mr. Kochanski, acting reasonably, is unable to timely reach an agreement through good faith negotiations with such successor, then he may elect to terminate his employment with us and receive the payments and bonuses described above with respect to such a termination. This is the same change in control termination option found in the Elgin employment agreement.

The agreement defines "cause" as (1) conviction of any crime (whether or not involving us) constituting a felony in the jurisdiction involved; (2) engaging in any act which, in each case, subjects, or if generally known would subject, us to public ridicule or embarrassment; (3) gross neglect or misconduct in the performance of the employee's duties under the agreement; or (4) material breach of any provision of the agreement by the employee; provided, however, that with respect to clauses (3) or (4), the employee must have received written notice from us setting forth the alleged act or failure to act constituting "cause", and the employee shall not have cured such act or refusal to act within 10 business days of his actual receipt of notice.

The agreement defines "disability" as our determination that, because of the employee's incapacity due to physical or mental illness, the employee has failed to perform his duties under the agreement on a full time basis for either (1) 120 days within any 365-day period, or (2) 90 consecutive days.

Change in Control Payments

If the change in control payments called for in the agreements for Mr. Elgin and Mr. Kochanski had been triggered on December 31, 2009, we would have been obligated to make the following payments:

Name	Cash Payment Per Month (# of months paid)	Number of Options that Would Vest (Market Value) ⁽¹⁾
Ernest Elgin	\$ 120,000 (6 mos.)	887,500 (\$299,625)
Gerald Kochanski	\$95,275 (6 mos.)	288,070 (\$28,392)

The market value equals the difference between \$0.80, the fair market value of the shares that could be acquired (1) based on the closing sale price per share of our common stock on the Over-the-Counter Bulletin Board on December 31, 2009 and the exercise prices for the underlying stock options.

2004 Equity Incentive Plan

The 2004 Plan provides that if there is a change in control, unless the agreement granting an award provides otherwise, all awards under the 2004 Plan will become vested and exercisable as of the effective date of the change in control. As defined in the 2004 Plan, a change in control means the occurrence of any of the following events: (i) any person, including a group, as such terms are defined in sections 13(d) and 14(d) of the Exchange Act and the rules promulgated thereunder, becomes the beneficial owner, directly or indirectly, whether by purchase or acquisition or agreement to act in concert or otherwise, of more than 50% of the outstanding shares of our common stock; (ii) our complete liquidation; (iii) the sale of all or substantially all of our assets; or (iv) a majority of the members of our Board of Directors are elected to the Board without having previously been nominated and approved by a majority of the members of the Board incumbent on the day immediately preceding such election.

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As of November 30, 2010, options to purchase 1,046,268 shares had been issued under the 2004 Plan, of which options for 338,646 shares had been exercised and options for 707,622 shares were outstanding, and 1,650,708 shares remained available for future grants under the 2004 Plan. The Board of Directors has approved an increase in the number of shares authorized for issuance under the 2004 Plan to 39,814,340 shares, subject to stockholder approval. We intend to ask our stockholders to approve, among other proposals, this increase in the number of shares authorized for issuance under our 2004 Stock Incentive Plan at our upcoming annual meeting of stockholders to be held on January 10, 2011.

Director Compensation

In fiscal 2009, our directors received a \$10,000 annual retainer, \$1,200 per meeting for each quarterly Board meeting attended and reimbursement for expenses incurred in connection with serving on our Board of Directors. The Chairman of the Board receives an annual retainer of \$20,000 and \$1,500 per meeting for each quarterly Board meeting attended. The chairperson of our Audit Committee is paid a \$5,000 annual retainer and \$500 per meeting for meetings of the Audit Committee, with a maximum of eight meetings per year.

We grant each non-employee director who first joins our Board, immediately upon such director's joining our Board, options to purchase 20,000 shares of our common stock in respect of such first year of service at an exercise price per share equal to the fair market value price per share of our common stock on the date of grant. We also grant annually to each non-employee director options to purchase 10,000 shares of our common stock (12,500 shares to the Chairman of the Board, effective in 2009) at an exercise price per share equal to the fair market value price per share of our common stock on the grant date, although inadvertently we did not grant these options in 2008 and 2009, and subsequently granted them in January 2010 with an exercise price of \$0.95 per share. These non-employee director options vest in three equal installments on each of the date of grant and the first and second anniversaries thereof. Our executive officers do not receive additional compensation for service as directors if any of them so serve.

The following table shows the compensation earned by each of our non-employee directors for the year ended December 31, 2009.

Non-Employee Director Compensation in Fiscal 2009

Name	Fees		Total (\$)
	Earned or Paid in Cash	Option Awards ⁽¹⁾⁽²⁾	
Arthur H. Amron	\$ 14,800	\$	\$ 14,800
Lawrence J. Centella	\$ 14,800		\$ 14,800
Paul A. Mieyal	\$ 14,800	\$	\$ 14,800
Eric A. Rose, M.D. ⁽³⁾	\$ 7,400		\$ 7,400
James S. Scibetta	\$ 32,700	\$ 26,275	\$ 58,975

(1) The amount reported is the aggregate grant date fair value of the options granted, computed in accordance with FASB ASC Topic 718.

(2) Unless otherwise indicated below, option awards included in this table vest in three equal installments on each of the date of grant and the first and second anniversaries thereof.

(3) Dr. Rose resigned from the Board on June 22, 2009.

Compensation Committee Interlocks and Insider Participation

Lawrence J. Centella and Paul Mieyal served as members of our Compensation Committee during all of 2009. Neither of these individuals was at any time during 2009 an officer or employee of our company. Paul Mieyal has served as our acting Chief Executive Officer since April 6, 2010. No interlocking relationship exists between any member of our Compensation Committee and any member of any other company's board of directors or compensation committee.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

Dr. Eric A. Rose was a director until his resignation in June 2009. During his service, Dr. Rose was on leave from his position as the Chairman of Columbia University's Department of Surgery. Until November 30,

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2008, we licensed the right to use approximately 2,788 square feet of office space from the Trustees of Columbia University. The term of the lease agreement was for one year through September 30, 2008 at a monthly cost of \$13,359.55. Pursuant to this agreement, we could access the internet through the Columbia University Network at a monthly fee of \$328.50. The lease terminated on November 30, 2008, and we do not currently have any other material relationship with Columbia University.

On October 1, 2010, Lambda Investors loaned us \$500,000 pursuant to a secured promissory note. The note bears interest at the rate of 12% per annum and matures on April 1, 2011. The terms of the note are discussed in more detail under the heading The Rights Offering Background of the Rights Offering Loan from Lambda Investors. Lambda Investors also committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. See The Rights Offering Background of the Rights Offering Loan from Lambda Investors and Purchase Agreement with Lambda Investors. Lambda Investors is not receiving any compensation for its purchase commitment. Following the closing of the rights offering, and after giving effect to anti-dilution provisions in existing warrants to purchase shares of our common stock that the rights offering will trigger, Lambda Investors has agreed to surrender for cancellation warrants to purchase a number of shares equal to the total number of shares underlying warrants issued as part of the Units sold in the rights offering and under the purchase agreement with Lambda Investors. The term of the remaining Lambda Investors warrants will be extended so that the warrants will expire at the same time as the warrants issued in the rights offering, which will have a five-year term. We are obligated to use proceeds from the rights offering to repay the \$500,000 principal due under the note, plus pay all accrued interest thereon, as well as an 8% sourcing/transaction fee (\$40,000) in respect of the note and an aggregate of \$100,000 for reimbursement of Lambda Investors' legal fees incurred in connection with the loan and the rights offering. The legal fees will be paid upon the closing of the rights offering or, in the case of legal fees relating to the note, upon the maturity of the note, if earlier. See Use of Proceeds. Lambda Investors is our largest stockholder and as of the record date beneficially owned approximately 43.9% of our outstanding common stock, including warrants to purchase an aggregate of 7,190,811 shares of our common stock. Lambda Investors is controlled by Wexford Capital LP. Arthur H. Amron, one of our directors, is a partner and General Counsel of Wexford Capital LP. Paul A. Mieyal, our Acting Chief Executive Officer and one of our directors, is a Vice President of Wexford Capital LP.

In connection with the rights offering, we have agreed to enter into a registration rights agreement with Lambda Investors pursuant to which we will file a registration statement on Form S-1 (or other appropriate form if we are not then eligible to use Form S-3) covering the resale by Lambda Investors of the common stock (including shares issuable upon the exercise of warrants) underlying Units sold under the purchase agreement with Lambda Investors, the existing Lambda Investors' warrants that will remain outstanding following the closing of the rights offering and shares of common stock issuable to Lambda Investors upon the exercise of such remaining warrants and warrants issued in the rights offering. Under this registration rights agreement, we will pay all of the expenses, including reasonable legal fees, of Lambda Investors in connection with such registration statement and resale of shares by Lambda Investors under such registration statement, which may be in an underwritten public offering. We will be obligated to use our reasonable best efforts to keep such registration statement continuously effective until such time as all the securities registered on such registration statement have been sold or are eligible for sale without restriction under the applicable securities laws.

In connection with our September 2007 financing, we entered into the registration rights agreement with certain parties, including Lambda Investors, pursuant to which we filed a resale registration statement

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registering common stock and shares of common stock issuable upon exercise of warrants held by such investors. We agreed to pay all expenses of such investors in connection with such registration statement and the resale of shares thereunder.

In connection with our September 2007 financing, we entered into an investor rights agreement with the 2007 investors pursuant to which we agreed to take such corporate actions as may be required, among other things, to entitle Lambda Investors (i) to nominate two individuals having reasonably appropriate experience and background to our board to serve as directors until their respective successor(s) are elected and qualified, (ii) to nominate each successor to the Lambda Investors nominees, provided that any successor shall have reasonably appropriate experience and background, and (iii) to direct the removal from the board of any director nominated under the foregoing clauses (i) or (ii). Under the investor rights agreement, we are required to convene meetings of the board of directors at least once every three months. If we fail to do so, a Lambda Investors director will be empowered to convene such meeting.

The investor rights agreement also provides that, except as Lambda Investors may otherwise agree in writing, Lambda Investors will have the right (i) to engage, directly or indirectly, in the same or similar business activities or lines of business as us and (ii) to do business with any of our clients, competitors or customers, with the result that we shall have no right in or to such activities or any proceeds or benefits therefrom, and neither Lambda Investors nor any officer, director, partner, manager, employee or affiliate of Lambda Investors, which is referred to as a Lambda Investors person, will be liable to us or our stockholders for breach of any fiduciary duty by reason of any such activities of Lambda Investors or of such Lambda Investors person's participation therein. A Lambda Investors person who is serving as one of our officers or directors may not, at the same time, serve as an officer or director of any entity whose principal business activity is (i) the development or sale of medical devices for the treatment of end stage renal disease or (ii) water filtration. In the event that Lambda Investors or any Lambda Investors person acquires knowledge of a potential transaction or matter that may be a corporate opportunity for both Lambda Investors and us other than in the case of a director-related opportunity (as defined below), Lambda Investors and such Lambda Investors person will have no duty to communicate or present such corporate opportunity to us. In addition, in the event that a Lambda Investors director acquires knowledge of a potential transaction or matter that may be a corporate opportunity for both us and Lambda Investors, such corporate opportunity will belong to Lambda Investors, unless such corporate opportunity is a director-related opportunity, in which case such corporate opportunity will belong to us. A director-related opportunity, under the investor rights agreement, means a potential transaction or matter that may be a corporate opportunity for both us and Lambda Investors where knowledge of such corporate opportunity is made known to a Lambda Investors person who is serving as our director as a result of his serving as our director prior to (x) Lambda Investors or any other Lambda Investors person acquiring knowledge of such corporate opportunity, or (y) such Lambda Investors person acquiring knowledge of such corporate opportunity other than as a result of such Lambda Investors person's serving as a director.

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SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The following table sets forth the beneficial ownership of our common stock as of November 30, 2010, by (i) each person known to us to own beneficially more than five percent (5%) of our common stock, based on such persons' or entities' filings with the SEC as of that date; (ii) each director, director nominee and executive officer; and (iii) all directors, director nominees and executive officers as a group:

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership	Percentage of class ⁽¹⁾
Lambda Investors LLC ⁽²⁾	21,572,432	43.9 %
Stagg Capital Group LLC ⁽³⁾	3,749,558	8.9 %
Arthur H. Amron ⁽⁴⁾	21,667	*
Lawrence J. Centella ⁽⁵⁾	41,667	*
Gerald J. Kochanski ⁽⁶⁾	131,250	*
Paul A. Mieyal ⁽⁷⁾	21,667	*
James S. Scibetta ⁽⁸⁾	40,834	*
All executive officers and directors as a group ⁽⁴⁾ (8)	257,085	*

* Represents less than 1% of the outstanding shares of our common stock.

- Applicable percentage ownership is based on 41,811,048 shares of common stock outstanding as of November 30, 2010, together with applicable options and warrants for each stockholder. Beneficial ownership is determined in accordance with the rules of the SEC, based on factors including voting and investment power with respect to shares. Common stock subject to options and warrants exercisable on or within 60 days after November 30, 2010 are deemed outstanding for the purpose of computing the percentage ownership of the person holding those options or warrants, but not for computing the percentage ownership of any other person.
- (1) Shares. Common stock subject to options and warrants exercisable on or within 60 days after November 30, 2010 are deemed outstanding for the purpose of computing the percentage ownership of the person holding those options or warrants, but not for computing the percentage ownership of any other person.
- (2) Based in part on information provided in Schedule 13D/A filed on February 12, 2010. The shares beneficially owned by Lambda Investors may be deemed beneficially owned by Wexford Capital LP, which is the managing member of Lambda Investors, by Charles E. Davidson in his capacity as chairman and managing member of Wexford Capital LP and by Joseph M. Jacobs in his capacity as president and managing member of Wexford Capital LP. The address of each of Lambda Investors LLC, Wexford Capital LP, Mr. Davidson and Mr. Jacobs is c/o Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. Each of Wexford Capital LP, Mr. Davidson and Mr. Jacobs disclaims beneficial ownership of the shares of Common Stock owned by Lambda Investors except, in the case of Mr. Davidson and Mr. Jacobs, to the extent of their respective interests in each member of Lambda Investors. Includes 7,190,811 shares issuable on or prior to November 14, 2012 upon exercise of warrants held by Lambda Investors having an exercise price of \$0.90 per share. These warrants contain a full-ratchet anti-dilution provision which, provides that if the per share price of the common stock contained in each unit offered by this prospectus is less than the warrant's current exercise price (i) the exercise price of the warrant will be reduced to the per share price of the shares in each unit and (ii) the number of shares covered by the warrant will be increased to an amount derived by multiplying the number of shares covered by the warrant by (x) the per share exercise price in effect before the completion of the offering divided by (y) the new exercise price

(which will be the per share price of each share contained in a unit). Lambda Investors is controlled by Wexford Capital LP. Arthur H. Amron, one of our directors, is a partner and General Counsel of Wexford Capital LP. Paul A. Mieyal, our Acting Chief Executive Officer and one of our directors, is a Vice President of Wexford Capital LP. Based in part on information provided in Schedule 13D/A filed with the SEC on August 21, 2008. Stagg Capital Group, LLC (Stagg Capital) serves as the investment advisor to an investment fund that holds the shares and Scott (3) A. Stagg is the managing member of Stagg Capital. By reason of such relationships, Stagg Capital and Mr. Stagg may be deemed to be indirect beneficial owners of the shares.

Mr. Amron s address is c/o Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. The shares (4) identified as being beneficially owned by Mr. Amron consist of 21,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(5) Mr. Centella s address is the Company address. The shares identified as being beneficially owned by

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Mr. Centella include 41,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(6) Mr. Kochanski s address is the Company address. The shares identified as being beneficially owned by Mr. Kochanski consist of 131,250 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 219,320 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(7) Mr. Mieyal s address is c/o Wexford Capital LP, 411 West Putnam Avenue, Greenwich, CT 06830. The shares identified as being beneficially owned by Mr. Mieyal consist of 21,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

(8) Mr. Scibetta s address is the Company address. The shares identified as being beneficially owned by Mr. Scibetta consist of 40,834 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 21,666 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of November 30, 2010.

DESCRIPTION OF COMMON STOCK

Our authorized capital stock consists of 90,000,000 shares of common stock, par value \$0.001 per share, and 5,000,000 shares of preferred stock, par value \$0.001 per share. As of the record date, there were 41,811,048 shares of common stock outstanding and no shares of preferred stock outstanding.

To effect the rights offering we need to increase the number of authorized shares of our common stock. Accordingly, we intend to seek the approval of our stockholders at our upcoming annual meeting of stockholders to be held on January 10, 2011, to amend our certificate of incorporation to increase the authorized shares of our capital stock from 95,000,000 to 905,000,000 shares and the authorized shares of our common stock from 90,000,000 to 900,000,000 shares. Immediately after completion of the rights offering, we intend to effect, subject to our stockholders approval, a 1-for-20 reverse stock split of our outstanding shares of common stock and decrease the authorized shares of our capital stock from 905,000,000 to 95,000,000 shares and the authorized shares of our common stock from 900,000,000 to 90,000,000 shares. We intend to seek stockholder approval of such amendment at our upcoming annual meeting of stockholders.

If all of the Units offered are sold, we will issue 175,000,000 shares of our common stock in the rights offering and under the purchase agreement with Lambda Investors. Assuming all of the Units offered are sold and no additional shares of our common stock are issued and no outstanding options or warrants are exercised prior to the completion of the rights offering and the private placement of Units with Lambda Investors, approximately 216,811,000 shares of our common stock will be outstanding immediately after the completion of the rights offering and the private placement of Units with Lambda Investors, which will equal approximately 10,840,000 shares after giving effect to our proposed 1-for-20 reverse stock split.

Holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders and do not have cumulative voting rights. Accordingly, holders of a majority of the shares of our common stock entitled to vote in any election of directors may elect all of the directors standing for election. Apart from preferences that may be applicable to any holders of preferred stock outstanding at the time, holders of our common stock are entitled to receive dividends, if any, ratably as may be declared from time to time by the Board out of funds legally available therefor. Upon our liquidation, dissolution or winding up, the holders of our common stock are entitled to receive ratably our net assets available after the payment of all liabilities and liquidation preferences on any outstanding preferred stock. Holders of our common stock have no preemptive, subscription, redemption or

conversion rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock which we may designate and issue in the future.

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DESCRIPTION OF WARRANTS

This prospectus also relates to the shares of our common stock issuable upon the exercise, if any, of the warrants issued to the investors in this offering.

The warrants will have an exercise price of \$0.02 per share of our common stock and will be exercisable at the option of the holder at any time after the closing date of this offering, through and including the date that is the five year anniversary of the initial exercise date. Notwithstanding the foregoing, no warrants will be exercisable and we will not be obligated to issue any shares issuable upon the exercise of such warrants unless (i) at the time the holder thereof seeks to exercise such warrant, we have a registration statement under the Securities Act in effect covering the shares issuable upon the exercise of such warrant and a current prospectus relating to our common stock, and (ii) the shares issuable upon such exercise have been registered or qualified or deemed to be exempt from registration under the securities laws of the state of residence of the holder of the warrant. The warrants may be exercised only for full shares of common stock, and may not be exercised on a cashless basis. We will not issue fractional shares of common stock or cash in lieu of fractional shares of common stock. Warrant holders do not have any voting or other rights as a stockholder of our company.

If we (i) pay a dividend or make a distribution on our common stock in shares of common stock, other securities, cash or any other property, (ii) subdivide our outstanding shares of common stock into a greater number of shares, (iii) combine or reverse-split our outstanding shares of common stock into a smaller number of shares, or (iv) engage in certain pro-rata repurchases of common stock, then the per share warrant price and the number of warrant shares will be proportionately decreased and increased, respectively, in the case of a subdivision, distribution or stock dividend, or proportionately increased and decreased, respectively, in the case of a combination or reverse stock split. The aggregate warrant price payable for the then total number of warrant shares available for exercise under the warrant will remain the same.

If we effect any capital reorganization or reclassification, or any consolidation or merger, or any sale, transfer or other disposition of all or substantially all of our property, assets or shares to which we are a party, the holder of the warrant will have the right to receive on the exercise of the warrant the kind and amount of securities, cash or other property which the holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger or reorganization had the warrant been exercised immediately prior to the effective date of such transaction. Our consummation of any such transaction in which we are not the surviving entity will be contingent upon the assumption of the warrants by the surviving party to such transaction.

No market exists for the warrants. We do not intend to list the warrants offered hereby on any securities exchange or automated quotation system.

As of the record date, warrants to purchase 8,191,827 shares of our common stock were outstanding. Upon completion of the rights offering, warrants to purchase 7,519,246 of those shares will become exercisable for an aggregate of 337,108,164 shares at an exercise price of \$0.02 per share as a result of the full-ratchet anti-dilution provisions contained in those warrants. Following the closing of the rights offering, and after giving effect to these anti-dilution provisions, Lambda Investors has agreed to surrender for cancellation warrants to purchase 161,793,248 shares of our common stock, which will equal the number of shares underlying warrants issued as part of the Units, assuming all of the Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold. If Lambda Investors purchases 60,194,226 Units under the purchase agreement, it will receive warrants to purchase 55,651,539 shares of our common stock. In addition, following the closing of the rights offering, Lambda Investors existing warrants to purchase 161,793,247 shares that remain outstanding will be amended to expire at the same time as the

warrants issued in the rights offering, which will have a five-year term. Assuming all Units offered in the rights offering and under the purchase agreement with Lambda Investors are sold and after giving effect to the surrender of existing warrants by Lambda Investors, immediately after the closing of the rights offering we will have outstanding warrants to purchase an aggregate of 337,18,164 shares of our common stock at an exercise price of \$0.02 per share and warrants to purchase another 672,581 shares of our common stock that will not be affected by the rights offering. After giving effect to the proposed 1-for-20 reverse stock split, we anticipate having outstanding warrants to purchase approximately 16,889,000 shares of our common stock.

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See Certain Relationships and Related Transactions for a description of registration rights with respect to shares of common stock issuable upon exercise of Lambda Investors warrants.

LEGAL MATTERS

The legality of the securities offered hereby will be passed upon for us by Wyrick Robbins Yates & Ponton, LLP, Raleigh, North Carolina.

EXPERTS

Our financial statements at and for the years ended December 31, 2008 and 2009 included in this prospectus have been audited by Rothstein Kass & Company P.C., an independent registered public accounting firm, as stated in their report, which report includes an explanatory paragraph related to the Company's ability to continue as a going concern.

Such financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's public reference room located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the public reference room. Our SEC filings are also available to the public free of charge at the SEC's website at www.sec.gov and on our website at www.nephros.com.

DISCLOSURE OF SEC POSITION ON INDEMNIFICATION FOR SECURITIES LAW VIOLATIONS

Our Fourth Amended and Restated Certificate of Incorporation, as amended, provides for indemnification of directors and officers of the Registrant to the fullest extent permitted by the Delaware General Corporation Law, or DGCL. We have obtained liability insurance for each director and officer for certain losses arising from claims or charges made against them while acting in their capacities as directors or officers of the registrant. Our Second Amended and Restated By-Laws provide for indemnification of our officers, directors and others who become a party to an action on our behalf by us to the fullest extent not prohibited under the DGCL. However, insofar as indemnification for liabilities arising under the Securities Act may be permitted to our directors, officers, and controlling persons pursuant to the foregoing provisions or otherwise, we have been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment of expenses incurred or paid by a director, officer or controlling person in a successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, we will, unless in the opinion of our counsel the matter has been settled by controlling precedent, submit to the court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

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Item 8. Financial Statements

**REPORT OF INDEPENDENT REGISTERED PUBLIC
ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Nephros, Inc.

We have audited the accompanying consolidated balance sheets of Nephros, Inc. and Subsidiary (collectively, the Company) as of December 31, 2009 and 2008, and the related consolidated statements of operations, stockholders equity and cash flows for each of the years then ended. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Nephros, Inc. and Subsidiary as of December 31, 2009 and 2008, and the results of their operations and their cash flows for each of the years then ended, in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the consolidated financial statements, the Company has incurred negative cash flow from operations and net losses since inception. These conditions, among others, raise substantial doubt about its ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 2. The accompanying consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ ROTHSTEIN, KASS & COMPANY, P.C.

Roseland, New Jersey
March 31, 2010

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NEPHROS, INC. AND SUBSIDIARY

CONSOLIDATED BALANCE SHEETS

(In Thousands, Except Share Amounts)

	December 31, 2009	December 31, 2008
ASSETS		
Current assets:		
Cash and cash equivalents	\$1,004	\$2,306
Short-term investments		7
Accounts receivable, less allowances of \$0 and \$4, respectively	629	404
Inventory, less allowances of \$18 and \$0, respectively	653	724
Prepaid expenses and other current assets	135	162
Total current assets	2,421	3,603
Property and equipment, net	210	412
Other assets	21	21
Total assets	\$2,652	\$4,036
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$455	\$986
Accrued expenses	239	411
Accrued severance expense		105
Total current liabilities	694	1,502
Total liabilities	694	1,502
Commitments and Contingencies (Note 11)		
Stockholders' equity:		
Preferred stock, \$.001 par value; 5,000,000 shares authorized at December 31, 2009 and 2008; no shares issued and outstanding at December 31, 2009 and 2008		
Common stock, \$.001 par value; 90,000,000 and 60,000,000 authorized at December 31, 2009 and 2008, respectively; 41,604,798 and 38,165,380 shares issued and outstanding at December 31, 2009 and 2008, respectively	42	38
Additional paid-in capital	91,815	90,375
Accumulated other comprehensive income	76	70
Accumulated deficit	(89,975)	(87,949)
Total stockholders' equity	1,958	2,534
Total liabilities and stockholders' equity	\$2,652	\$4,036

The accompanying notes are an integral part of these consolidated financial statements.

TABLE OF CONTENTS**NEPHROS, INC. AND SUBSIDIARY****CONSOLIDATED STATEMENTS OF OPERATIONS
(In Thousands, Except Share and Per Share Amounts)**

	Years Ended December 31	
	2009	2008
Product revenue	\$ 2,661	\$ 1,473
Cost of goods sold	1,744	1,064
Gross margin	917	409
Operating expenses:		
Research and development	280	1,977
Depreciation and amortization	231	447
Selling, general and administrative	2,812	4,702
Total operating expenses	3,323	7,126
Loss from operations	(2,406)	(6,717)
Interest income	9	199
Interest expense	(2)	
Impairment of auction rate securities		(114)
Gain on sale of investments		114
Other income	373	181
Net loss	\$ (2,026)	\$ (6,337)
Net loss per common share, basic and diluted	\$ (0.05)	\$ (0.17)
Weighted average common shares outstanding, basic and diluted	39,629,346	38,165,380

The accompanying notes are an integral part of these consolidated financial statements.

TABLE OF CONTENTS**NEPHROS, INC. AND SUBSIDIARY**

**CONSOLIDATED STATEMENT OF CHANGES IN
STOCKHOLDERS EQUITY
(In Thousands, Except Share Amounts)**

	Common Stock		Additional Paid-in Capital	Accumulated Other Income (Loss)	Accumulated Deficit	Total
	Shares	Amount				
Balance, January 1, 2008	38,165,380	\$ 38	\$90,220	\$ 110	\$(81,612)	\$8,756
Comprehensive income:						
Net loss					(6,337)	(6,337)
Net unrealized losses on foreign currency translation				(40)		(40)
Comprehensive loss						(6,377)
Noncash stock-based compensation			155			155
Balance, December 31, 2008	38,165,380	\$ 38	\$90,375	\$ 70	\$(87,949)	\$2,534
Comprehensive income:						
Net loss					(2,026)	(2,026)
Net unrealized gains on foreign currency translation				6		6
Comprehensive loss						(2,020)
Cashless exercise of warrants	1,829,476	2	(2)			
Private placement sale of common stock	1,345,161	1	1,250			1,251
Exercise of stock options	264,781	1	84			85
Noncash stock-based compensation			108			108
Balance, December 31, 2009	41,604,798	\$ 42	\$91,815	\$ 76	\$(89,975)	\$1,958

The accompanying notes are an integral part of these consolidated financial statements.

TABLE OF CONTENTS**NEPHROS, INC. AND SUBSIDIARY****CONSOLIDATED STATEMENTS OF CASH FLOWS
(In Thousands)**

	Years Ended December	
	31, 2009	2008
Operating activities:		
Net loss	\$ (2,026)	\$ (6,337)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation of property and equipment	231	447
Impairment of auction rate securities		114
Noncash stock-based compensation	108	155
Gain on sale of investments		(114)
Inventory reserve	18	
(Increase) decrease in operating assets:		
Accounts receivable	(220)	1
Inventory	57	(409)
Prepaid expenses and other current assets	27	227
Other assets		8
Increase (decrease) in operating liabilities:		
Accounts payable and accrued expenses	(702)	138
Accrued severance expense	(105)	45
Net cash used in operating activities	(2,612)	(5,725)
Investing activities		
Purchase of property and equipment	(28)	(97)
Proceeds from sales of property and equipment		3
Maturities of short-term investments	7	4,693
Net cash provided by (used in) investing activities	(21)	4,599
Financing activities		
Proceeds from stock options exercised	85	
Proceeds from issuance of common stock	1,251	
Net cash provided by financing activities	1,336	
Effect of exchange rates on cash	(5)	(17)
Net decrease in cash	(1,302)	(1,143)
Cash, beginning of year	2,306	3,449
Cash, end of year	\$ 1,004	\$ 2,306
Supplemental disclosure of cash flow information		
Cash paid for interest	\$ 2	\$
Cash paid for taxes	\$ 6	\$ 1

The accompanying notes are an integral part of these consolidated financial statements.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1 Organization and Nature of Operations

Nephros, Inc. (Nephros or the Company) was incorporated under the laws of the State of Delaware on April 3, 1997. Nephros was founded by health professionals, scientists and engineers affiliated with Columbia University to develop advanced End Stage Renal Disease (ESRD) therapy technology and products. The Company has three products in various stages of development in the hemodiafiltration, or HDF, modality to deliver improved therapy for ESRD patients. These are the OLpur™ MDHDF filter series or dialyzers, designed expressly for HDF therapy, the OLpur™ H₂H 2™, an add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy, and the OLpur™ NS2000 system, a stand-alone hemodiafiltration machine and associated filter technology.

In 2006, the Company introduced its Dual Stage Ultrafilter (DSU) water filter system, which represents a new and complementary product line to the Company's existing ESRD therapy business. The DSU incorporates the Company's unique and proprietary dual stage filter architecture.

On June 4, 2003, Nephros International Limited was incorporated under the laws of Ireland as a wholly-owned subsidiary of the Company. In August 2003, the Company established a European Customer Service and financial operations center in Dublin, Ireland.

Note 2 Summary of Significant Accounting Policies

Principles of Consolidation and Basis of Presentation

The accompanying consolidated financial statements include the accounts of the Company and its wholly owned subsidiary, Nephros International Limited. All intercompany accounts and transactions have been eliminated in consolidation.

These financial statements were approved by management and the Board of Directors and are available for issuance as of the date of the audit opinion. Subsequent events have been evaluated through this date.

Use of Estimates in the Preparation of Financial Statements

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities, at the date of the financial statements and the reported amounts of revenues and expenses, during the reporting period. Actual results could differ from those estimates.

Going Concern and Management's Response

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. The Company's recurring losses and difficulty in generating sufficient cash flow to meet its obligations and

sustain its operations raise substantial doubt about its ability to continue as a going concern. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. Based on the Company's current cash flow projections, it will need to raise additional funds through either the licensing or sale of its technologies or additional public or private offerings of its securities. The Company continues to investigate strategic funding opportunities as they are identified. However, there is no guarantee that the Company will be able to obtain further financing. If it is unable to raise additional funds on a timely basis or at all, the Company would not be able to continue its operations.

The Company has incurred significant losses in its operations in each quarter since inception. For the years ended December 31, 2009 and 2008, the Company has incurred net losses of approximately \$2,026,000 and \$6,337,000, respectively. In addition, the Company has not generated positive cash flow from operations for the years ended December 31, 2009 and 2008. To become profitable, the Company must increase revenue substantially and achieve and maintain positive gross and operating margins. If the Company is not able to increase revenue and gross and operating margins sufficiently to achieve profitability, the Company's results of operations and financial condition will be materially and adversely affected.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 2 Summary of Significant Accounting Policies
(continued)**

The Company's current operating plans primarily include the continued development and support of the Company's business in the European market, organizational changes necessary to begin the commercialization of the Company's water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation.

There can be no assurance that the Company's future cash flow will be sufficient to meet its obligations and commitments. If the Company is unable to generate sufficient cash flow from operations in the future to service its commitments the Company will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing its planned activities or ceasing its operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable the Company to continue to satisfy its capital requirements.

The Company continues to investigate additional funding opportunities. However, there can be no assurance that the Company will be able to obtain further financing, do so on reasonable terms or do so on terms that would not substantially dilute the equity interests in the Company. If the Company is unable to raise additional funds on a timely basis, or at all, the Company will not be able to continue its operations.

Cash and Cash Equivalents

The Company invests its excess cash in bank deposits and money market accounts. The Company considers all highly liquid investments purchased with original maturities of three months or less from the date of purchase to be cash equivalents. Cash equivalents are carried at fair value, which approximate cost, and primarily consist of money market funds maintained at major U.S. financial institutions.

Short-Term Investments

The Company had no short-term investments at December 31, 2009. The Company had \$7,000 of short-term investments consisting of a certificate of deposit at December 31, 2008.

See Note 3 for a further discussion of short-term investments as of December 31, 2009 and December 31, 2008.

Accounts Receivable

The Company provides credit terms to customers in connection with purchases of the Company's products. Management periodically reviews customer account activity in order to assess the adequacy of the allowances provided for potential collection issues and returns. Factors considered include economic conditions, each customer's

payment and return history and credit worthiness. Adjustments, if any, are made to reserve balances following the completion of these reviews to reflect management's best estimate of potential losses. The allowance for doubtful accounts at December 31, 2009 and 2008 was \$0 and \$4,000, respectively. There was no allowance for sales returns at December 31, 2009 or 2008. There were no write offs of accounts receivable to bad debt expense during 2009 or 2008.

Inventory

The Company engages third parties to manufacture and package inventory held for sale, takes title to certain inventory once manufactured, and warehouses such goods until packaged for final distribution and sale. Inventory consists of finished goods and raw materials (fiber) held at the manufacturers' facilities, and are valued at the lower of cost or market using the first-in, first-out method.

Patents

The Company has filed numerous patent applications with the United States Patent and Trademark Office and in foreign countries. All costs and direct expenses incurred in connection with patent applications have been expensed as incurred.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 2 Summary of Significant Accounting Policies
(continued)**

Property and Equipment, net

Property and equipment, net is stated at cost less accumulated depreciation. These assets are depreciated over their estimated useful lives of three to seven years using the straight line method.

Impairment for Long-Lived Assets

The Company adheres to ASC Topic 360 and periodically evaluates whether current facts or circumstances indicate that the carrying value of its depreciable assets to be held and used may be recoverable. If such circumstances are determined to exist, an estimate of undiscounted future cash flows produced by the long-lived assets, or the appropriate grouping of assets, is compared to the carrying value to determine whether impairment exists. If an asset is determined to be impaired, the loss is measured based on the difference between the asset's fair value and its carrying value. An estimate of the asset's fair value is based on quoted market prices in active markets, if available. If quoted market prices are not available, the estimate of fair value is based on various valuation techniques, including a discounted value of estimated future cash flows. The Company reports an asset to be disposed of at the lower of its carrying value or its estimated net realizable market value. There were no impairment losses for long-lived assets recorded for the years ended December 31, 2009 and December 31, 2008.

Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, short-term investments, accounts receivable, accounts payable and accrued expenses approximate fair value due to the short-term maturity of these instruments.

Revenue Recognition

Revenue is recognized in accordance with ASC Topic 605. Four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed or determinable; and (iv) collectability is reasonably assured.

The Company recognizes revenue related to product sales when delivery is confirmed by its external logistics provider and the other criteria of ASC Topic 605 are met. Product revenue is recorded net of returns and allowances. All costs and duties relating to delivery are absorbed by Nephros. All shipments are currently received directly by the Company's customers.

Shipping and Handling Costs

Shipping and handling costs are recorded as cost of goods sold and are approximately \$19,000 and \$31,000 for the years ended December 31, 2009 and 2008, respectively.

Research and Development Costs

Research and development costs are expensed as incurred.

Stock-Based Compensation

The Company accounts for stock-based compensation in accordance with ASC Topic 718 by recognizing the fair value of stock-based compensation in the statement of operations. The fair value of the Company's stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that the Company estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based awards is amortized over the vesting period of the award. For stock-based awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 2 Summary of Significant Accounting Policies
(continued)**

Other Income

Other income in the amount of approximately \$373,000 and \$181,000 for the years ended December 31, 2009 and December 31, 2008, respectively, resulted primarily from receipt of New York State Qualified Emerging Technology Company (QETC) tax refunds in each of these periods. Tax credits for the years 2006 and 2007 were received and recognized during the year ended December 31, 2009. The tax credit for the year 2005 was received and recognized during the year ended December 31, 2008 and no further tax credits are expected.

Income Taxes

The Company accounts for income taxes in accordance with ASC Topic 740, which requires accounting for deferred income taxes under the asset and liability method. Deferred income taxes are recognized for the tax consequences of temporary differences by applying enacted statutory tax rates applicable in future years to differences between the financial statement carrying amounts and the tax basis of existing assets and liabilities.

For financial reporting purposes, the Company has incurred a loss in each period since its inception. Based on available objective evidence, including the Company's history of losses, management believes it is more likely than not that the net deferred tax assets will not be fully realizable. Accordingly, the Company provided for a full valuation allowance against its net deferred tax assets at December 31, 2009 and December 31, 2008.

ASC Topic 740 prescribes, among other things, a recognition threshold and measurement attributes for the financial statement recognition and measurement of uncertain tax positions taken or expected to be taken in a company's income tax return. ASC 740 utilizes a two-step approach for evaluating uncertain tax positions. Step one or recognition, requires a company to determine if the weight of available evidence indicates a tax position is more likely than not to be sustained upon audit, including resolution of related appeals or litigation processes, if any. Step two or measurement, is based on the largest amount of benefit, which is more likely than not to be realized on settlement with the taxing authority. The Company is subject to income tax examinations by major taxing authorities for all tax years prior to 2006. The adoption of the provisions of ASC 740 did not have a material impact on the Company's consolidated financial statements. During the year ended December 31, 2009 and 2008, the Company recognized no adjustments for uncertain tax positions. However, management's conclusions regarding this policy may be subject to review and adjustment at a later date based on factors including, but not limited to, ongoing analyses of and changes to tax laws, regulation and interpretations, thereof.

Loss per Common Share

In accordance with ACS 260-10, net loss per common share amounts (basic EPS) are computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding and excluding any potential dilution. Net loss per common share amounts assuming dilution (diluted EPS) is generally computed by reflecting potential dilution from conversion of convertible securities and the exercise of stock options and warrants.

The following securities have been excluded from the dilutive per share computation as they are antidilutive.

	2009	2008
Stock options	1,885,782	2,696,225
Warrants	8,191,827	11,090,248

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 2 Summary of Significant Accounting Policies
(continued)**

Foreign Currency Translation

Foreign currency translation is recognized in accordance with ASC Topic 830. The functional currency of Nephros International Limited is the Euro and its translation gains and losses are included in accumulated other comprehensive income. The balance sheet is translated at the year-end rate. The statement of operations is translated at the weighted average rate for the year.

Comprehensive Income (Loss)

Comprehensive income (loss), as defined in ASC 220, is the total of net income (loss) and all other non-owner changes in equity (or other comprehensive income (loss)) such as unrealized gains or losses on securities classified as available-for-sale and foreign currency translation adjustments. For the years ended December 31, 2009 and 2008, the comprehensive loss was approximately \$2,020,000 and \$6,377,000, respectively.

Recent Issued and Adopted Accounting Standards

Fair Value Measurements In September 2006, the FASB issued guidance regarding fair value measurements. This guidance defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. It applies to other accounting pronouncements where the FASB requires or permits fair value measurements but does not require any new fair value measurements. In February 2008, FASB issued a pronouncement, which delayed the effective date of its prior guidance regarding fair value measurements, specifically for certain non-financial assets and non-financial liabilities to fiscal years beginning after November 15, 2008, and interim periods within those fiscal years. The Company adopted the guidance for financial assets and liabilities on January 1, 2008. It did not have any impact on the Company's results of operations or financial position and did not result in any additional disclosures and the Company adopted the guidance for non-financial assets and non-financial liabilities on January 1, 2009, resulting in no impact to the Company's consolidated financial position, results of operations or cash flows.

In April 2009, the FASB issued new accounting guidance on determining fair value when the volume and level of activity for the asset or liability have significantly decreased and identifying transactions that are not orderly. The guidance affirms that the objective of fair value when the market for an asset is not active is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date under current market conditions. It provides guidance for estimating fair value when the volume and level of market activity for an asset or liability have significantly decreased and determining whether a transaction was orderly. It applies to all fair value measurements when appropriate. The adoption of this guidance did not have a significant impact on the Company's consolidated financial position, results of operations or cash flows, or related

footnotes.

In April 2009, the FASB issued new accounting guidance on interim disclosures about fair value of financial instruments, which is effective for the Company for the quarterly period beginning April 1, 2009. The guidance requires an entity to provide the annual disclosures required by a prior pronouncement regarding disclosures about fair value of financial instruments, in its interim financial statements. The application of the guidance did not have a significant impact on the Company's consolidated financial position, results of operations or cash flows, or related footnotes.

In August 2009, the FASB issued an update to provide further guidance on how to measure the fair value of a liability, an area where practitioners have been seeking further guidance. It primarily does three things: 1) sets forth the types of valuation techniques to be used to value a liability when a quoted price in an active market for the identical liability is not available, 2) clarifies that when estimating the fair value of a liability, a reporting entity is not required to include a separate input or adjustment to other inputs relating to the existence of a restriction that prevents the transfer of the liability and 3) clarifies that both a quoted price in an active market for the identical liability at the measurement date and the quoted price for the identical

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 2 Summary of Significant Accounting Policies
(continued)**

liability when traded as an asset in an active market when no adjustments to the quoted price of the asset are required are Level 1 fair value measurements. This standard is effective beginning in the fourth quarter of 2009 for the Company. The adoption of this standard update is not expected to impact the Company's consolidated financial position, results of operations or cash flows.

Business Combinations In December 2007, the FASB issued new accounting guidance on business combinations. The pronouncement establishes principles and requirements for how the acquirer in a business combination recognizes and measures in its financial statements the fair value of identifiable assets acquired, the liabilities assumed and any noncontrolling interest in the acquiree at the acquisition date. The pronouncement determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. It is effective for fiscal years beginning after December 15, 2008. The Company adopted the pronouncement on January 1, 2009 resulting in no impact to the Company's consolidated financial position, results of operations or cash flows.

Subsequent Events On May 28, 2009, the FASB issued guidance regarding subsequent events, which the Company adopted on a prospective basis beginning April 1, 2009. The guidance is intended to establish general standards of accounting and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. It requires the disclosure of the date through which an entity has evaluated subsequent events and the basis for selecting that date. The application of the pronouncement did not have an impact on the Company's consolidated financial position, results of operations or cash flows.

FASB Accounting Standards Codification On June 29, 2009, the FASB issued an accounting pronouncement establishing the FASB Accounting Standards Codification as the source of authoritative accounting principles recognized by the FASB to be applied by nongovernmental entities. This pronouncement was effective for financial statements issued for interim and annual periods ending after September 15, 2009, for most entities. On the effective date, all non-SEC accounting and reporting standards will be superseded. The Company adopted this new accounting pronouncement for the quarterly period ended September 30, 2009, as required, and adoption did not have a material impact on the Company's consolidated financial position, results of operations or cash flows.

Recognition and Presentation of Other-Than-Temporary Impairments In April 2009, the FASB issued an accounting pronouncement, which is effective for the Company for interim and annual reporting periods ending after June 15, 2009, that amends existing guidance for determining whether an other than temporary impairment of debt securities has occurred. Among other changes, the FASB replaced the existing requirement that an entity's management assert it has both the intent and ability to hold an impaired security until recovery with a requirement that management assert (a) it does not have the intent to sell the security, and (b) it is more likely than not it will not have to sell the security before recovery of its cost basis. The adoption of this accounting pronouncement did not have an impact on the Company's consolidated financial position, results of operations or cash flows.

New Accounting Pronouncements

In December 2009, the FASB issued ASU No. 2009-17, Consolidations (Topic 810) – Improvements to Financial Reporting By Enterprises Involved with Variable Interest Entities (ASU No. 2009-17). ASU 2009-17 requires a qualitative approach for determining the primary beneficiary of a variable interest entity and replaces the quantitative evaluation previously set forth under FASB Interpretation No. 46 (revised December 2003), Consolidation of Variable Interest Entities. This approach is focused on identifying the reporting entity that has the ability to direct the activities of a variable interest entity that most significantly affects the entity's economic performance and has the obligation to absorb the entity's losses or has the right to receive benefits from the entity. ASU No. 2009-17, among other things, will require enhanced disclosures about a reporting entity's involvement in variable interest entities. The guidance under ASU No. 2009-17 will

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 2 Summary of Significant Accounting Policies
(continued)**

be effective for the first annual period beginning after November 15, 2009, and interim periods within that first annual period. The Company is assessing what impact, if any, adoption of this standard will have on its consolidated financial statements.

Note 3 Short-Term Investments

ASC Topic 820 provides a framework for measuring fair value under generally accepted accounting principles in the United States and requires expanded disclosures regarding fair value measurements. ASC 820 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy that requires an entity to maximize the use of observable inputs, where available, and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1 Quoted prices in active markets for identical assets or liabilities.

Level 2 Observable inputs, other than Level 1 prices, such as quoted prices in active markets for similar assets and liabilities, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities, including certain pricing models, discounted cash flow methodologies and similar techniques.

The Company had no financial assets at December 31, 2009.

The following table details the fair value measurements within the fair value hierarchy of the Company's financial assets at December 31, 2008:

	Total Fair Value at December 31, 2008	Fair Value Measurements at Reporting Date Using		
		Level 1	Level 2	Level 3
Certificates of deposit	\$ 7,000	\$ 7,000	\$	\$
Total	\$ 7,000	\$ 7,000	\$	\$

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The following table reflects the activity for the Company's ARS measured at fair value using Level 3 inputs for the year ended December 31, 2008:

	Auction Rate Securities
Balance as of December 31, 2007	\$4,700,000
Sale of Securities	(4,700,000)
Gain on sale of investments	114,000
Impairment of auction rate securities	(114,000)
Balance as of December 31, 2008	\$

As of December 31, 2008, the Company had grouped certificates of deposit using a Level 1 valuation because market prices are readily available in active markets.

The Company invested in auction rate securities (ARS), which are long-term debt instruments with interest rates reset through periodic short-term auctions. If there are insufficient buyers when such a periodic auction is held, then the auction fails and the holders of the ARS are unable to liquidate their investment through such auction. With the liquidity issues experienced in global credit and capital markets, the ARS held by the Company experienced multiple failed auctions in the first quarter of fiscal year 2008. As a result of the

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 3 Short-Term Investments (continued)**

failed auctions, the Company did not consider the affected ARS liquid and accordingly, the Company classified its ARS as noncurrent assets as of March 31, 2008.

Based upon an analysis of other-than-temporary impairment factors, the Company wrote down ARS with an original par value of \$4,400,000 to an estimated fair value of \$4,286,000 as of March 31, 2008. The Company reviewed impairments associated with the above in accordance with ASC Topic 320 to determine the classification of the impairment as temporary or other-than-temporary. The Company determined the ARS classification to be other-than-temporary, and charged an impairment loss of \$114,000 on the ARS to its results of operations during the three months ended March 31, 2008. Subsequently during the three months ended June 30, 2008, \$300,000 of principal on the Company's ARS had been paid back from the debtor. As a result of the payment, the Company's investment decreased from a par value of \$4,400,000 to approximately \$4,100,000. The net book value of the Company's ARS at June 30, 2008 was \$3,986,000. On July 22, 2008, the Company sold its ARS to a third party at 100% of par value, for proceeds of \$4,100,000 and as a result, the Company reclassified the ARS from Available-for-Sale to Trading Securities.

In accordance with ASC 320 the ARS, classified as Trading Securities, were valued at their fair value of \$4,100,000 at June 30, 2008. The adjustment of the ARS carrying value from \$3,986,000 net book value to \$4,100,000 fair value resulted in an Unrealized Holding Gain of \$114,000 which was recorded in the Company's Consolidated Statement of Operations for the three and six months ended June 30, 2008. As a result of the sale of investment on July 22, 2008, the Company reclassified the unrealized holding gain of \$114,000 to a realized gain on sale of investments.

The Company had no investment in Auction Rate Securities during 2009.

Note 4 Inventory

The Company's inventory components as of December 31, 2009 and 2008 were as follows:

	December 31,	
	2009	2008
Raw Materials	\$ 257,000	\$ 382,000
Finished Goods	414,000	342,000
Total Gross Inventory	671,000	724,000
Less: Inventory reserve	(18,000)	
Total Inventory	\$ 653,000	\$ 724,000

Note 5 Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets as of December 31, 2009 and 2008 were as follows:

	December 31,	
	2009	2008
Prepaid insurance premiums	\$ 126,000	\$ 88,000
Other	9,000	74,000
Prepaid expenses and other current assets	\$ 135,000	\$ 162,000

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 6 Property and Equipment, Net**

Property and equipment as of December 31, 2009 and 2008 was as follows:

	Life	December 31,	
		2009	2008
Manufacturing equipment	3 5 years	\$ 2,115,000	\$ 2,057,000
Research equipment	5 years	91,000	91,000
Computer equipment	3 4 years	62,000	61,000
Furniture and fixtures	7 years	39,000	39,000
Property and equipment, gross		2,307,000	2,248,000
Less: accumulated depreciation		2,097,000	1,836,000
Property and equipment, net		\$ 210,000	\$ 412,000

The Company contracts with a contract manufacturer (CM) to manufacture the Company s ESRD therapy products. The Company owns certain manufacturing equipment located at CM s manufacturing plant.

Depreciation expense for the years ended December 31, 2009 and 2008 was approximately \$231,000 and \$447,000, respectively, including amortization expense relating to research and development assets.

Note 7 Accrued Expenses

Accrued expenses as of December 31, 2009 and 2008 were as follows:

	December 31,	
	2009	2008
Accrued Clinical Trial	\$	\$ 102,000
Accrued Management Bonus and Directors Compensation	97,000	119,000
Accrued Accounting	63,000	75,000
Accrued Legal	19,000	32,000
Accrued Other	60,000	83,000
	\$ 239,000	\$ 411,000

Note 8 Income Taxes

A reconciliation of the income tax provision computed at the statutory tax rate to the Company s effective tax rate is as follows:

2009	2008
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U.S. federal statutory rate	35.00 %	35.00 %
State & local taxes	5.90 %	10.79 %
Tax on foreign operations	(0.88)%	(1.36)%
State research and development credits	(14.93)%	(2.71)%
Other	0.79 %	(0.32)%
Valuation allowance	(40.81)%	(44.11)%
Effective tax rate	(14.93)%	(2.71)%

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 8 Income Taxes (continued)**

Significant components of the Company's deferred tax assets as of December 31, 2009 and 2008 are as follows:

	2009	2008
Deferred tax assets:		
Net operating loss carry forwards	\$ 23,135,000	\$ 29,357,000
Research and development credits	974,000	957,000
Nonqualified stock option compensation expense	1,553,000	1,751,000
Other temporary book tax differences	(34,000)	(63,000)
Total deferred tax assets	25,628,000	32,002,000
Valuation allowance for deferred tax assets	(25,628,000)	(32,002,000)
Net deferred tax assets	\$	\$

A valuation allowance has been recognized to offset the Company's net deferred tax asset as it is more likely than not that such net asset will not be realized. The Company primarily considered its historical loss and potential Internal Revenue Code Section 382 limitations to arrive at its conclusion that a valuation allowance was required.

At December 31, 2009, the Company had Federal, New York State and New York City income tax net operating loss carryforwards of \$62,487,000 each and foreign income tax net operating loss carryforwards of \$9,273,000. The Company also had Federal research tax credit carryforwards of \$974,000 at December 31, 2009 and \$957,000 at December 31, 2008. The Federal net operating loss and tax credit carryforwards will expire at various times between 2012 and 2026 unless utilized. During 2009, the Company received \$303,000 payroll based research and development credits from New York State.

Implementation of ASC 740 did not result in a cumulative effect adjustment to the accumulated deficit.

It is the Company's policy to report interest and penalties, if any, related to unrecognized tax benefits in income tax expense.

Note 9 Stock Plans, Share-Based Payments and Warrants**Stock Plans**

In 2000, the Company adopted the Nephros 2000 Equity Incentive Plan. In January 2003, the Board of Directors adopted an amendment and restatement of the plan and renamed it the Amended and Restated Nephros 2000 Equity Incentive Plan (the 2000 Plan), under which 2,130,750 shares of common stock had been authorized for issuance upon exercise of options granted.

As of December 31, 2008, 220,888 options had been issued to non-employees under the 2000 Plan and were outstanding. Such options expire at various dates through March 15, 2014 all of which are fully vested. As of December 31, 2008, 916,506 options had been issued to employees under the 2000 Plan and were outstanding. Such options expire at various dates between December 31, 2009 and March 15, 2014 all of which are fully vested.

As of December 31, 2009, 41,053 options had been issued to non-employees under the 2000 Plan and were outstanding. Such options expire at various dates through March 15, 2014 all of which are fully vested. As of December 31, 2009, 144,607 options had been issued to employees under the 2000 Plan and were outstanding. Such options expire at various dates between January 22, 2013 and March 15, 2014 all of which are fully vested.

The Board retired the 2000 Plan in June 2004, and thereafter no additional awards may be granted under the 2000 Plan.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 9 Stock Plans, Share-Based Payments and Warrants
(continued)**

In 2004, the Board of Directors adopted and the Company's stockholders approved the Nephros, Inc. 2004 Stock Incentive Plan, and, in June 2005, the Company's stockholders approved an amendment to such plan (as amended, the 2004 Plan), that increased to 800,000 the number of shares of the Company's common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan. In May 2007, the Company's stockholders approved an amendment to the 2004 Plan that increased to 1,300,000 the number of shares of the Company's common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan. In addition, in June 2008, the Company's stockholders approved an amendment to the 2004 Plan that increased to 2,696,976 the number of shares of the Company's common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan.

As of December 31, 2008, 1,366,279 options had been issued to employees under the 2004 Plan and were outstanding. The options expire on various dates between December 14, 2014 and November 8, 2017, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years. At December 31, 2008, there were 2,050,924 shares available for future grants under the 2004 Plan. As of December 31, 2008, 192,552 options had been issued to non-employees under the 2004 Plan and were outstanding. Such options expire at various dates between November 11, 2014 and November 30, 2017, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

As of December 31, 2009, 1,517,570 options had been issued to employees under the 2004 Plan and were outstanding. The options expire on various dates between January 5, 2016 and December 31, 2019, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years. At December 31, 2009, there were 1,543,884 shares available for future grants under the 2004 Plan. As of December 31, 2009, 182,552 options had been issued to non-employees under the 2004 Plan and were outstanding. Such options expire at various dates between November 11, 2014 and August 14, 2019, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

Share-Based Payment

Prior to the Company's initial public offering, options were granted to employees, non-employees and non-employee directors at exercise prices which were lower than the fair market value of the Company's stock on the date of grant.

After the date of the Company's initial public offering, stock options are granted to employees, non-employees and non-employee directors at exercise prices equal to the fair market value of the Company's stock on the date of grant.

Stock options granted have a life of 10 years. Unvested options as of December 31, 2009 currently vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

Expense is recognized, net of expected forfeitures, over the vesting period of the options. For options that vest upon the achievement of certain milestones, expense is recognized when it is probable that the condition will be met. Stock

based compensation expense recognized for the years ended December 31, 2009 and 2008 was approximately \$108,000 or less than \$0.01 per share and approximately \$155,000 or less than \$0.01 per share, respectively.

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 9 Stock Plans, Share-Based Payments and Warrants
(continued)**

The fair value of each option grant is estimated on the date of grant using the Black-Scholes option pricing model with the below assumptions related to risk-free interest rates, expected dividend yield, expected lives and expected stock price volatility.

Grant Year	Option Pricing Assumptions			
	2009		2008	
Stock Price Volatility	93%	96%	89%	90%
Risk-Free Interest Rates	2.51%	3.04%	3.45%	3.47%
Expected Life (in years)	5.75	6.25	6.25	
Expected Dividend Yield	0%		0%	

Expected volatility is based on historical volatility of the Company's common stock at the time of grant. The risk-free interest rate is based on the U.S. Treasury yields in effect at the time of grant for periods corresponding with the expected life of the options. For the expected life, the Company is using the simplified method as described in the SEC Staff Accounting Bulletin 107. This method assumes that stock option grants will be exercised based on the average of the vesting periods and the option's life.

The total fair value of options vested during the fiscal year ended December 31, 2009 was approximately \$157,000. The total fair value of options vested during the fiscal year ended December 31, 2008 was approximately \$102,000.

The following table summarizes information about stock options outstanding and exercisable at December 31, 2009:

Range of Exercise Price	Options Outstanding			Options Exercisable	
	Number Outstanding as of December 31, 2009	Weighted Average Remaining Contractual Life in Years	Weighted Average Exercise Price	Number Exercisable as of December 31, 2009	Weighted Average Exercise Price
\$0.13	108,000	9.0	\$ 0.13		\$
\$0.37	750,000	8.7	\$ 0.37	187,500	\$ 0.37
\$0.75	250,000	8.3	\$ 0.75	62,500	\$ 0.75
\$0.77	354,070	10.0	\$ 0.77		\$
\$0.80 \$2.32	166,182	2.2	\$ 1.29	137,849	\$ 1.27
\$2.39 \$4.80	257,530	4.1	\$ 2.54	247,530	\$ 2.54

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Total Outstanding	1,885,782	\$ 0.85	635,379	\$ 1.45
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The number of new options granted in 2009 and 2008 is 507,070 and 1,125,000, respectively. The weighted-average fair value of options granted in 2009 and 2008 is \$0.69 and \$0.38, respectively.

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 9 Stock Plans, Share-Based Payments and Warrants
(continued)**

The following table summarizes the option activity for the years ended December 31, 2009 and 2008:

	Shares	Weighted Average Exercise Price
Outstanding at December 31, 2008	2,696,225	\$ 1.10
Options granted	507,070	0.69
Options exercised	(264,780)	0.32
Options forfeited	(1,052,733)	1.56
Outstanding at December 31, 2009	1,885,782	0.85
Expected to vest at December 31, 2009	1,177,880	\$ 0.48
Exercisable at December 31, 2009	635,379	\$ 1.45

The aggregate intrinsic value of stock options outstanding at December 31, 2009 and the stock options vested or expected to vest is \$388,741. A stock option has intrinsic value, at any given time, if and to the extent that the exercise price of such stock option is less than the market price of the underlying common stock at such time. The weighted-average remaining contractual life of options vested or expected to vest is 8.2 years.

As of December 31, 2009, the total remaining unrecognized compensation cost related to non-vested stock options amounted to \$456,000 and will be amortized over the weighted-average remaining requisite service period of 2.2 years.

Warrants

Class D Warrants The Company issued Class D Warrants to purchase an aggregate of 9,112,566 shares of the Company's common stock to the Investors upon conversion of the purchased notes. The Company recorded the issuance of the Class D Warrants at their approximate fair market value of \$3,763,000. The value of the Class D Warrants was computed using the Black-Scholes option pricing model.

Placement Agent Warrants The Company issued placement agent warrants to purchase an aggregate of 1,756,374 shares of the Company's common stock to the Company's placement agents in connection with their roles in the Company's fall 2007 financing (the 2007 Financing). The Company recorded the issuance of the placement agent warrants at their approximate fair market value of \$1,047,000. The value of the placement agent warrants was computed using the Black-Scholes option pricing model.

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(continued)**

The following table summarizes certain terms of all of the Company's outstanding warrants at December 31, 2009 and 2008:

Total Outstanding Warrants at December 31, 2008

Title of Warrant	Date Issued	Expiry Date	Exercise Price	Total Common Shares Issuable	
				2009	2008
IPO Underwriter Warrants	3/24/2005	9/20/2009	\$ 7.50		200,000
Lancer Warrants	1/18/2006	1/18/2009	\$ 1.50		21,308
Class D Warrants	11/14/2007	11/14/2012	\$ 0.706	7,389,565	9,112,566
Placement Agent Warrants	11/14/2007	11/14/2012	\$ 0.90	129,681	1,756,374
July 2009 Warrants	7/24/2009	7/24/2014	\$ 1.12	672,581	
Total all Outstanding Warrants				8,191,827	11,090,248

- (1) Weighted average exercise price is \$0.92 and \$1.02 for December 31, 2009 and 2008, respectively. The IPO Underwriter Warrants expired on September 20, 2009.

The Lancer Warrants expired on January 18, 2009.

Issuance of Common Stock due to Class D Warrants Cashless Exercise Provision

The Series D warrants have a cashless exercise provision which states, "If, and only if, at the time of exercise pursuant to this Section 1 there is no effective registration statement registering, or no current prospectus available for, the sale of the Warrant Shares to the Holder or the resale of the Warrant Shares by the Holder and the VWAP (as defined below) is greater than the Per Share Exercise Price at the time of exercise, then this Warrant may also be exercised at such time and with respect to such exercise by means of a cashless exercise in which the Holder shall be entitled to receive a certificate for the number of Warrant Shares equal to the quotient obtained by dividing (i) the result of (x) the difference of (A) minus (B), multiplied by (y) (C), by (ii) (A), where:

(A) = the VWAP (as defined below) on the Trading Day (as defined below) immediately preceding the date of such election;

(B) = the Per Share Exercise Price of this Warrant, as adjusted; and

(C) the number of Warrant Shares issuable upon exercise of this Warrant in accordance with the terms of this = Warrant by means of a cash exercise rather than a cashless exercise.

VWAP means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted for trading on the New York Stock Exchange, American Stock Exchange, NASDAQ Capital Market, NASDAQ Global Market, NASDAQ Global Select Market or the OTC Bulletin Board, or any successor to any of the foregoing (a Trading Market), the daily volume weighted average price of the Common Stock on the Trading Market on which the Common Stock is then listed or quoted for trading as reported by Bloomberg L.P. for such date if such date is a date on which the Trading Market on which the Common Stock is then listed or quoted for trading (a Trading Day) or the nearest preceding Trading Date (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)); (b) if the Common Stock is not then listed or quoted for trading on a Trading Market and if prices for the Common Stock are then reported in the Pink Sheets published by Pink Sheets, LLC (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of the Common Stock so reported; or (c) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Holder and reasonably acceptable to the Company.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 9 Stock Plans, Share-Based Payments and Warrants
(continued)**

The Company did not have an effective registration statement or a current prospectus available for the sale of the warrant shares to the holder or the resale of the warrant shares by the holder and the VWAP (as defined above) was greater than the per share exercise price from June 8 through August 26, 2009.

A Class D warrant holder elected to exercise 1,723,001 of the 9,112,566 Class D Warrants outstanding as of June 2009 pursuant to the cashless exercise provision of the warrant. As a result, 1,091,222 shares of common stock were issued to this Class D warrant holder in August 2009. The number of shares outstanding in the December 31, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the twelve months ended December 31, 2009 include these shares.

**Issuance of Common Stock due to Placement Agent Warrants
Cashless Exercise Provision**

National Securities Corporation (NSC) and Dinosaur Securities, LLC (Dinosaur) and together with NSC, the Placement Agents) acted as co-placement agents in connection with the 2007 Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The Placement Agents received (i) an aggregate cash fee equal to 8% of the face amount of the notes purchased in the 2007 Financing (the Purchased Notes) and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants (Placement Agent Warrant) with a term of five years from the date of issuance to purchase 10% of the aggregate number of shares of the Company s common stock issued upon conversion of the Purchased Notes with an exercise price per share of the Company s common stock equal to \$0.706. The Company issued Placement Agents Warrants to purchase an aggregate of 1,756,374 shares of the Company s common stock to the Placement Agent in November 2007 in connection with their roles in the 2007 Financing.

The Placement Agent Warrants have a cashless exercise provision identical to that in the Series D Warrants.

The Company did not have an effective registration statement or a current prospectus available for the sale of the warrant shares to the holders or the resale of the warrant shares by the holders and the VWAP (as defined above) was greater than the per share exercise price from June 8 through August 26, 2009. Several Placement Agents elected to exercise the cashless exercise provision of their warrants.

Placement Agents elected to exercise 1,348,690 of the 1,756,374 Placement Agent Warrants outstanding in June 2009.

All elected the Cashless Exercise provision of their warrants. As a result, 594,492 shares of common stock were issued to the Placement Agents in June 2009. The number of shares outstanding in the June 30, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the three and six months ended June 30, 2009 include these shares.

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As of June 30, 2009 there were 407,684 Placement Agent Warrants outstanding.

Placement Agents elected to exercise 278,003 of the 407,684 Placement Agent Warrants outstanding in June 2009. All elected the cashless exercise provision of their warrants. As a result, 143,762 shares of common stock were issued to the Placement Agents in the three months ended September 30, 2009. The number of shares outstanding in the September 30, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the three and six months ended September 30, 2009 and for the twelve months ended December 31, 2009 include these shares.

As of December 31, 2009 there were 129,681 Placement Agent Warrants outstanding.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**Note 9 Stock Plans, Share-Based Payments and Warrants
(continued)**

July 2009 Private Placement

On July 24, 2009, the Company raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of its common stock and warrants to purchase an aggregate of 672,581 shares of its common stock, representing 50% of the shares of common stock purchased by each investor. The Company sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014.

Note 10 401(k) Plan

The Company has established a 401(k) deferred contribution retirement plan (the 401(k) Plan) which covers all employees. The 401(k) Plan provides for voluntary employee contributions of up to 15% of annual earnings, as defined. As of January 1, 2004, the Company began matching 100% of the first 3% and 50% of the next 2% of employee earnings to the 401(k) Plan. The Company contributed and expensed \$25,000 and \$29,000 in 2009 and 2008, respectively.

Note 11 Commitments and Contingencies

Manufacturing and Suppliers

The Company does not intend to manufacture any of its products or components. The Company has entered into an agreement dated May 12, 2003, and amended on March 22, 2005 with a contract manufacturer (CM), a developer and manufacturer of medical products, to assemble and produce the Company's OLpur MD190, MD220 or other filter products at the Company's option. The agreement requires the Company to purchase from CM the OLpur MD190s and MD220s or other filter products that the Company directly markets in Europe, or are marketed by our distributor. In addition, CM will be given first consideration in good faith for the manufacture of OLpur MD190s, MD220s or other filter products that the Company does not directly market. No less than semiannually, CM will provide a report to representatives of both parties to the agreement detailing any technical know-how that CM has developed that would permit them to manufacture the filter products less expensively and both parties will jointly determine the actions to be taken with respect to these findings. If the fiber wastage with respect to the filter products manufactured in any given year exceeds 5%, then CM will reimburse the Company up to half of the cost of the quantity of fiber represented by excess wastage. CM will manufacture the OLpur MD190 or other filter products in accordance with the quality standards outlined in the agreement. Upon recall of any OLpur MD190 or other filter product due to CM having manufactured one or more products that fail to conform to the required specifications or having failed to manufacture one or more products in accordance with any applicable laws, CM will be responsible for the cost of

recall. The agreement also requires that the Company maintain certain minimum product-liability insurance coverage and that the Company indemnify CM against certain liabilities arising out of the Company's products that they manufacture, providing they do not arise out of CM's breach of the agreement, negligence or willful misconduct. The term of the agreement is through May 12, 2010, with successive automatic one-year renewal terms, until either party gives the other notice that it does not wish to renew at least 90 days prior to the end of the term. The agreement may be terminated prior to the end of the term by either party upon the occurrence of certain insolvency-related events or breaches by the other party. Although the Company has no separate agreement with respect to such activities, CM has also been manufacturing the Company's DSU in limited quantities.

The Company entered into an agreement in December 2003, and amended in June 2005, with a fiber supplier (FS), a manufacturer of medical and technical membranes for applications like dialysis, to continue to produce the fiber for the OLpur MDHDF filter series.

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO CONSOLIDATED FINANCIAL STATEMENTS****Note 11 Commitments and Contingencies (continued)**

Pursuant to the agreement, FS is the Company's exclusive provider of the fiber for the OLPur MDHDF filter series in the European Union as well as certain other territories. On January 18, 2010 the FS notified the Company that they are exercising their right to terminate the supply agreement. Termination of the supply agreement will be effective on July 18, 2010. The FS noted their desire to negotiate and execute a new supply agreement with the Company. Negotiations on terms of a new supply agreement are ongoing.

Contractual Obligations

At December 31, 2009, the Company had an operating lease that will expire on November 30, 2011 for the rental of its U.S. office and research and development facilities. The term of the rental agreement is for three years commencing December 2008 with a monthly cost of approximately \$7,423.

At December 31, 2009 the Company had an operating lease with a six month term beginning on March 1, 2009 and is renewable for six month terms with a three month notice to discontinue. The monthly cost is 735 Euro (approximately \$1,000).

Rent expense for the years ended December 31, 2009 and 2008 totaled \$111,000 and \$191,000, respectively.

Contractual Obligations and Commercial Commitments

The following tables summarize our approximate minimum contractual obligations and commercial commitments as of December 31, 2009:

	Payments Due in Period				
	Total	Within 1 Year	Years 1 3	Years 3 5	More than 5 Years
Leases	\$ 186,000	\$ 101,000	\$ 85,000	\$	\$
Employment Contracts	244,000	195,000	49,000		
Total	\$ 430,000	\$ 296,000	\$ 134,000	\$	\$

Claims

A former employee in France filed a claim in October 2008 stating that the individual is due 30,000 Euro or approximately \$42,000 in back wages. The individual left the Company's employment four years ago and signed a Separation Agreement which stated the Company had no further liability to the individual. A final judgment dated October 15, 2009 was issued by a French court whereby the claimant was awarded 11,707 Euro, approximately \$18,000. The award was paid in October 2009.

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A former employee in the United States filed a claim in March 2009 against the Company and its CEO alleging breach of the individual's employment agreement and fraud. The individual was employed with us from April 2008 through January 8, 2009. The claim was settled as of September 30, 2009 for approximately \$11,000. The settlement was paid in October 2009.

A third party has brought a claim against the Company alleging they incurred damages as a result of the Company's cancellation of a transaction in 2008 involving the sale of Auction Rate Securities. A settlement of this claim was reached and paid in March 2010 in the amount of \$20,000. The settlement amount has been accrued as of December 2009.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 12 Concentration of Credit Risk

Cash and cash equivalents are financial instruments which potentially subject the Company to concentrations of credit risk. The Company deposits its cash in financial institutions. At times, such deposits may be in excess of insured limits. To date, the Company has not experienced any impairment losses on its cash and cash equivalents.

Major Customers

For the year ended December 31, 2009 and 2008, two customers accounted for 87% and 91%, respectively, of the Company's sales. In addition, as of December 31, 2009 and 2008, those customers accounted for 78% and 89%, respectively, of the Company's accounts receivable.

Note 13 Subsequent Event

On March 30, 2010, Ernest Elgin, III resigned as our President and Chief Executive Officer and also resigned from our Board of Directors. In connection with Mr. Elgin's resignation, we entered into a separation, release and consulting agreement with him, pursuant to which we will pay Mr. Elgin his current salary through April 16 and pay his applicable COBRA premiums through April 30, 2010, and, during any time that his COBRA coverage is in effect in 2010, reimburse him for out-of-pocket payments made in 2010 under his healthcare coverage up to \$5,000, which is the deductible under the healthcare coverage. Mr. Elgin will be available to consult with us for up to 15 hours a week until May 31, 2010, for which we will pay Mr. Elgin at the rate of 50% of his current salary from April 16 to May 31, 2010. We have the right to extend the consulting period for an additional four months during which Mr. Elgin would be available to consult with us for up to 7.5 hours a week and during which we would pay Mr. Elgin 25% of his current salary. We may terminate this consulting arrangement at any time upon 30 days notice.

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(In thousands, except share amounts)**

	(Unaudited) September 30, 2010	(Audited) December 31, 2009
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 421	\$ 1,004
Accounts receivable	449	629
Inventory, less allowances of \$18	608	653
Prepaid expenses and other current assets	68	135
Total current assets	1,546	2,421
Property and equipment, net	115	210
Other assets	21	21
Total assets	\$ 1,682	\$ 2,652
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 584	\$ 455
Accrued expenses	233	239
Deferred revenue	67	
Total current liabilities	884	694
Total liabilities	884	694
Commitments and Contingencies (Note 11)		
Stockholders' equity:		
Preferred stock, \$.001 par value; 5,000,000 shares authorized at September 30, 2010 and December 31, 2009; no shares issued and outstanding at September 30, 2010 and December 31, 2009.		
Common stock, \$.001 par value; 90,000,000 authorized at September 30, 2010 and December 31, 2009; 41,811,048 and 41,604,798 shares issued and outstanding at September 30, 2010 and December 31, 2009, respectively.	42	42
Additional paid-in capital	91,957	91,815
Accumulated other comprehensive income	42	76
Accumulated deficit	(91,243)	(89,975)
Total stockholders' equity	798	1,958
Total liabilities and stockholders' equity	\$ 1,682	\$ 2,652

The accompanying notes are an integral part of these unaudited condensed consolidated interim financial statements

TABLE OF CONTENTS**NEPHROS, INC. AND SUBSIDIARY****CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS**

**(In thousands, except share and per share amounts)
(Unaudited)**

	Three Months Ended September 30,		Six Months Ended September 30,	
	2010	2009	2010	2009
Product revenue	\$622	\$711	\$2,421	\$1,869
Cost of goods sold	319	463	1,446	1,251
Gross margin	303	248	975	618
Operating expenses:				
Research and development	116	62	259	212
Depreciation	30	53	98	190
Selling, general and administrative	550	676	1,903	2,093
Total operating expenses	696	791	2,260	2,495
Loss from operations	(393)	(543)	(1,285)	(1,877)
Interest income		2	1	8
Interest expense				(2)
Other income	18	146	16	328
Net loss	\$(375)	\$(395)	\$(1,268)	\$(1,543)
Net loss per common share, basic and diluted	\$(0.01)	\$(0.01)	\$(0.03)	\$(0.04)
Weighted average common shares outstanding, basic and diluted	41,811,048	40,439,506	41,717,781	38,961,179

The accompanying notes are an integral part of these unaudited condensed consolidated interim financial statements

TABLE OF CONTENTS**NEPHROS, INC. AND SUBSIDIARY**

**CONDENSED CONSOLIDATED STATEMENTS OF
CASH FLOWS
(In thousands)
(Unaudited)**

	Nine Months Ended September 30,	
	2010	2009
Operating activities:		
Net loss	\$ (1,268)	\$ (1,543)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	98	190
Noncash stock-based compensation	70	68
(Increase) decrease in operating assets:		
Accounts receivable	168	(114)
Inventory	28	118
Prepaid expenses and other current assets	67	49
Increase (decrease) in operating liabilities:		
Accounts payable and accrued expenses	129	(638)
Deferred revenue	67	
Net cash used in operating activities	(641)	(1,870)
Investing activities:		
Purchase of property and equipment	(6)	
Maturities of short-term investments		7
Net cash provided by (used in) investing activities	(6)	7
Financing activities:		
Proceeds from private placement		1,251
Proceeds from stock options exercised	72	84
Net cash provided by financing activities	72	1,335
Effect of exchange rates on cash	(8)	17
Net decrease in cash and cash equivalents	(583)	(511)
Cash and cash equivalents, beginning of period	1,004	2,306
Cash and cash equivalents, end of period	\$ 421	\$ 1,795
Supplemental disclosure of cash flow information:		
Cash paid for interest	\$ -	\$ 2
Cash paid for taxes	\$ 2	\$ 6

The accompanying notes are an integral part of these unaudited condensed consolidated interim financial statements

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NEPHROS, INC.

**NOTES TO UNAUDITED CONDENSED
CONSOLIDATED INTERIM FINANCIAL STATEMENTS**

1. Basis of Presentation and Going Concern

Interim Financial Information

The accompanying unaudited condensed consolidated interim financial statements of Nephros, Inc. and its wholly owned subsidiary, Nephros International, Limited (collectively, the Company), should be read in conjunction with the audited consolidated financial statements and notes thereto included in the Company's 2009 Annual Report on Form 10-K filed with the Securities and Exchange Commission (the SEC) on April 2, 2010. The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP) for interim financial information and in accordance with the instructions to Form 10-Q and Article 8 and Article 10 of Regulation S-X. Accordingly, since they are interim statements, the accompanying consolidated financial statements do not include all of the information and notes required by GAAP for a complete financial statement presentation. The condensed consolidated balance sheet as of December 31, 2009 was derived from the Company's audited consolidated financial statements but does not include all disclosures required by GAAP. In the opinion of management, the interim consolidated financial statements reflect all adjustments consisting of normal, recurring adjustments that are necessary for a fair presentation of the financial position, results of operations and cash flows for the condensed consolidated interim periods presented. Interim results are not necessarily indicative of results for a full year. All significant intercompany transactions and balances have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the Company's consolidated financial statements and accompanying notes. Actual results could differ materially from those estimates.

Going Concern and Management's Response

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. The Company's recurring losses and difficulty in generating sufficient cash flow to meet its obligations and sustain its operations raise substantial doubt about its ability to continue as a going concern. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. Based on the Company's current cash flow projections, it will need to raise additional funds through either the licensing or sale of its technologies or additional public or private offerings of its securities. The Company continues to investigate strategic funding opportunities as they are identified. However, there is no guarantee that the Company will be able to obtain further financing. If it is unable to raise additional funds on a timely basis or at all, the Company would not be able to continue its operations.

The Company has incurred significant losses in its operations in each quarter since inception. For the nine months ended September 30, 2010 and 2009, the Company has incurred net losses of approximately \$1,268,000 and \$1,543,000, respectively. In addition, the Company has not generated positive cash flow from operations for the three and nine months ended September 30, 2010 and 2009. To become profitable, the Company must increase revenue substantially and achieve and maintain positive gross and operating margins. If the Company is not able to increase revenue and gross and operating margins sufficiently to achieve profitability, the Company's results of operations and financial condition will be materially and adversely affected.

The Company's current operating plans primarily include the continued development and support of the Company's business in the European and Canadian markets, organizational changes necessary to expand the commercialization of the Company's water filtration business and the completion of current year milestones that are included in the Office of Naval Research appropriation.

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NEPHROS, INC.

**NOTES TO UNAUDITED CONDENSED
CONSOLIDATED INTERIM FINANCIAL STATEMENTS**

1. Basis of Presentation and Going Concern (continued)

There can be no assurance that the Company's future cash flow will be sufficient to meet its obligations and commitments. If the Company is unable to generate sufficient cash flow from operations in the future to service its commitments the Company will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing its planned activities or ceasing its operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable the Company to continue to satisfy its capital requirements.

On October 1, 2010, the Company issued a senior secured note to Lambda Investors LLC in the principal amount of \$500,000. The Company expects that the proceeds from the note will allow it to fund its operations through February 2011.

The note bears interest at the rate of 12% per annum and matures on April 1, 2011, at which time all principal and accrued interest will be due. However, the Company has agreed to prepay amounts due under the note with the cash proceeds from (a) the planned rights offering, (b) any other equity or debt financing, or (c) the sale of any assets outside the ordinary course of business in each case prior to the maturity date. If the Company does not pay principal and interest under the note when due, the interest rate increases to 16% per annum. The Company may prepay the note without penalty at any time.

The note is secured by a first priority lien on all of the Company's property, including its intellectual property.

As long as indebtedness remains outstanding under the note, the Company will be subject to certain covenants which, among other things, restrict its ability to merge with another company, sell a material amount of its assets, incur any additional indebtedness, repay any existing indebtedness, or declare or pay any dividends in cash, property or securities.

In connection with the note, the Company has agreed to pay Lambda Investors an 8%, or \$40,000, sourcing/transaction fee. In addition, the Company will reimburse Lambda Investors' legal fees incurred in connection with the note in the amount of \$50,000 as well as Lambda Investors' legal fees incurred in connection with the rights offering in the amount of \$50,000. Those payments will be paid upon the completion of the rights offering or, if earlier, upon the maturity of the note.

Lambda Investors is the Company's largest stockholder and beneficially owns approximately 44% of the Company's outstanding common stock, including warrants to purchase an aggregate of 7,190,811 shares of the Company's common stock. The warrants held by Lambda Investors have an exercise price of \$0.90 per share and have full ratchet anti-dilution protection. The shares beneficially owned by Lambda Investors may be deemed beneficially owned by Wexford Capital LP, which is the managing member of Lambda Investors. One of the Company's directors is a partner and general counsel of Wexford Capital. Another of the Company's directors and Acting Chief Executive Officer is a

vice president of Wexford Capital.

The Company, on October 1, 2010, withdrew the Form S-1 that was filed with the Securities and Exchange Commission on May 21, 2010.

On October 1, 2010, the Company filed with the Securities and Exchange Commission a Registration Statement on Form S-1 relating to a proposed rights offering to raise up to \$3.5 million from the Company's existing stockholders.

The Company continues to investigate additional funding opportunities. However, there can be no assurance that the Company will be able to obtain further financing, do so on reasonable terms or do so on terms that would not substantially dilute the equity interests in the Company. If the Company is unable to raise additional funds on a timely basis, or at all, the Company will not be able to continue its operations.

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO UNAUDITED CONDENSED
CONSOLIDATED INTERIM FINANCIAL STATEMENTS****2. Concentration of Credit Risk**

For the nine months ended September 30, 2010 and 2009, the following customers accounted for the following percentages of the Company's sales, respectively.

Customer	2010		2009	
A	49	%	45	%
B	31	%	42	%
C	6	%	6	%

As of September 30, 2010 and December 31, 2009, the following customers accounted for the following percentages of the Company's accounts receivable, respectively.

Customer	2010		2009	
A	64	%	44	%
B	5	%	34	%
C	11	%	18	%

3. Revenue Recognition

Revenue is recognized in accordance with Accounting Standards Codification (ASC) Topic 605. Four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed or determinable; and (iv) collectability is reasonably assured.

The Company recognizes revenue related to product sales when delivery is confirmed by its external logistics provider and the other criteria of ASC Topic 605 are met. Product revenue is recorded net of returns and allowances. All costs and duties relating to delivery are absorbed by the Company. All shipments are currently received directly by the Company's customers.

4. Stock-Based Compensation

The Company accounts for stock-based compensation in accordance with ASC Topic 718 by recognizing the fair value of stock-based compensation in the statement of operations. The fair value of the Company's stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that the Company estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based awards is amortized over the vesting period of the award. For

stock-based awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

For the three months ended September 30, 2010 and 2009, stock-based compensation expense was approximately \$21,000 and \$33,000, respectively. For the nine months ended September 30, 2010 and 2009, stock-based compensation expense was approximately \$70,000 and \$68,000, respectively.

There was no tax benefit related to expense recognized in the three and nine months ended September 30, 2010 and 2009, as the Company is in a net operating loss position. As of September 30, 2010, there was approximately \$149,000 of total unrecognized compensation cost related to unvested share-based compensation awards granted under the equity compensation plans which will be amortized over the weighted average remaining requisite service period of 2.2 years. Such amount does not include the effect of future grants of equity compensation, if any. Of the total \$149,000, the Company expects to recognize approximately 14% in the remaining interim periods of 2010, approximately 53% in 2011, approximately 20% in 2012 and approximately 13% in 2013.

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NEPHROS, INC.

NOTES TO UNAUDITED CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS

5. Comprehensive Income (Loss)

Comprehensive income (loss), as defined in ASC Topic 220, is the total of net income (loss) and all other non-owner changes in equity (or other comprehensive income (loss)) such as unrealized gains or losses on securities classified as available-for-sale and foreign currency translation adjustments. As of September 30, 2010, accumulated other comprehensive loss was approximately \$42,000. As of December 31, 2009, accumulated other comprehensive income was approximately \$76,000.

6. Loss per Common Share

In accordance with ASC Topic 260-10, net loss per common share amounts (basic EPS) are computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding and excluding any potential dilution. Net loss per common share amounts assuming dilution (diluted EPS) is generally computed by reflecting potential dilution from conversion of convertible securities and the exercise of stock options and warrants. However, because their effect is antidilutive, the Company has excluded stock options and warrants aggregating 9,085,109 and 9,698,539 shares, respectively, from the computation of diluted EPS for the nine month periods ended September 30, 2010 and 2009, respectively.

7. Recently Adopted Accounting Pronouncements

In December 2009, the Financial Accounting Standards Board (FASB) issued an amendment to ASC Topic 810 Improvements to Financial Reporting By Enterprises Involved with Variable Interest Entities. This amendment to ASC Topic 810 requires a qualitative approach for determining the primary beneficiary of a variable interest entity and replaces the quantitative evaluation previously set forth under FASB Interpretation No. 46 (revised December 2003), Consolidation of Variable Interest Entities. This approach is focused on identifying the reporting entity that has the ability to direct the activities of a variable interest entity that most significantly affects the entity's economic performance and has the obligation to absorb the entity's losses or has the right to receive benefits from the entity. The amendment, among other things, will require enhanced disclosures about a reporting entity's involvement in variable interest entities. The guidance under the amendment to ASC Topic 810 will be effective for the first annual period beginning after November 15, 2009, and interim periods within that first annual period. The Company adopted the pronouncement on January 1, 2010 resulting in no impact to the Company's consolidated financial statements.

In February 2010, the FASB issued an amendment which requires that an SEC filer, as defined, evaluate subsequent events through the date that the financial statements are issued. The update also removed the requirement for an SEC filer to disclose the date through which subsequent events have been evaluated. The adoption of this guidance on January 1, 2010 did not have a material effect on the Company's consolidated financial statements.

In January 2010, the FASB issued an amendment to ASC Topic 820 Improving Disclosures about Fair Value Measurements, which amends the existing fair value measurement and disclosure guidance currently included in ASC Topic 820, Fair Value Measurements and Disclosures, to require additional disclosures regarding fair value measurements. Specifically, the amendment to ASC Topic 820 requires entities to disclose the amounts of significant transfers between Level 1 and Level 2 of the fair value hierarchy and the reasons for these transfers, the reasons for any transfer in or out of Level 3 and information in the reconciliation of recurring Level 3 measurements about purchases, sales, issuances and settlements on a gross basis. In addition, this amendment also clarifies the requirement for entities to disclose information about both the valuation techniques and inputs used in estimating Level 2 and Level 3 fair value measurements. This amendment is effective for interim and annual reporting periods beginning after December 15, 2009, except for additional disclosures related to Level 3 fair value measurements, which are effective for fiscal years beginning after December 15, 2010. The adoption of this amendment did not impact the Company's consolidated financial statements or results of operations.

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TABLE OF CONTENTS**NEPHROS, INC.****NOTES TO UNAUDITED CONDENSED
CONSOLIDATED INTERIM FINANCIAL STATEMENTS****8. New Accounting Pronouncements**

In April 2010, the FASB issued an Accounting Standards Update which provides guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Research or development arrangements frequently include payment provisions whereby a portion or all of the consideration is contingent upon milestone events such as successful completion of phases in a study or achieving a specific result from the research or development efforts. The amendments in this standard provide guidance on the criteria that should be met for determining whether the milestone method of revenue recognition is appropriate. This standard is effective for fiscal years and interim periods within those years beginning on or after June 15, 2010, with early adoption permitted. This standard is effective for the Company on January 1, 2011. The Company is currently evaluating the impact that the adoption of this standard will have on the Company's consolidated financial statements.

9. Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, short-term investments, accounts receivable, accounts payable and accrued expenses approximate fair value due to the short-term maturity of these instruments.

The Company had no financial assets held at fair value at September 30, 2010 or December 31, 2009.

10. Inventory, net

Inventory is stated at the lower of cost or market using the first-in first-out method. The Company's inventory as of September 30, 2010 and December 31, 2009 was approximately as follows:

	Unaudited September 30, 2010	Audited December 31, 2009
Raw Materials	\$ 152,000	\$ 257,000
Finished Goods	474,000	414,000
Total Gross Inventory	\$ 626,000	\$ 671,000
Less: Inventory reserve	(18,000)	(18,000)
Total Inventory	\$ 608,000	\$ 653,000

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NEPHROS, INC.

NOTES TO UNAUDITED CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS

11. Commitments and Contingencies

On March 30, 2010, Ernest Elgin, III resigned as the Company's President and Chief Executive Officer and also resigned from the Board of Directors. In connection with Mr. Elgin's resignation, the Company entered into a separation, release and consulting agreement with Mr. Elgin, pursuant to which the Company paid Mr. Elgin his current salary through April 16, 2010, paid his applicable COBRA premiums through April 30, 2010 and, during any time that his COBRA coverage is in effect in 2010, will reimburse him for out-of-pocket payments made in 2010 under his healthcare coverage up to \$5,000, which is the deductible under the healthcare coverage. Mr. Elgin was available to consult with the Company for up to 15 hours a week until May 31, 2010, for which the Company paid Mr. Elgin at the rate of 50% of his current salary from April 16 to May 31, 2010. Mr. Elgin was available to consult with the Company for up to 7.5 hours a week from June 1 to September 30, 2010 for which the Company paid Mr. Elgin at the rate of 25% of his current salary. As of September 30, 2010, the consulting services ceased and there was no remaining unpaid severance balance.

Gerald Kochanski, our Chief Financial Officer, served as the acting Chief Executive Officer from March 30, 2010 until April 5, 2010. As of April 6, 2010, Paul Mieyal, a member of the Board of Directors, has served as the acting Chief Executive Officer. Dr. Mieyal is a Vice President of Wexford Capital LP, the managing member of Lambda Investors LLC, which is the beneficial owner of approximately 44% of the Company's outstanding stock based on common stock and warrants held at September 30, 2010.

Suppliers

The Company entered into an agreement in December 2003, as amended in June 2005, with a fiber supplier (FS), a manufacturer of medical and technical membranes for applications such as dialysis, to continue to produce the fiber for the OLpur MDHDF filter series. Pursuant to the agreement, the FS is the Company's exclusive provider of the fiber for the OLpur MDHDF filter series in the European Union as well as certain other territories. On January 18, 2010 the FS notified the Company that it is exercising its right to terminate the supply agreement. Termination of the supply agreement was effective on July 18, 2010. The FS has continued to sell fiber to the Company while negotiations on terms of a new supply agreement have continued.

12. Subsequent Events

On October 1, 2010, the Company issued a senior secured note to Lambda Investors LLC in the principal amount of \$500,000. It is anticipated that the proceeds from the note will fund the Company's operations through February 2011.

The note bears interest at the rate of 12% per annum and matures on April 1, 2011, at which time all principal and accrued interest will be due. However, the Company has agreed to prepay amounts due under the note with the cash proceeds from (a) the planned rights offering, (b) any other equity or debt financing, or (c) the sale of any assets

outside the ordinary course of business in each case prior to the maturity date. If the principal and interest under the note is not paid when due, the interest rate increases to 16% per annum. The note may be prepaid without penalty at any time.

The note is secured by a first priority lien on all of the Company's property, including its intellectual property.

As long as indebtedness remains outstanding under the note, the Company will be subject to certain covenants which, among other things, restrict its ability to merge with another company, sell a material amount of its assets, incur any additional indebtedness, repay any existing indebtedness, or declare or pay any dividends in cash, property or securities.

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NEPHROS, INC.

**NOTES TO UNAUDITED CONDENSED
CONSOLIDATED INTERIM FINANCIAL STATEMENTS**

12. Subsequent Events (continued)

In connection with the note, the Company has agreed to pay Lambda Investors an 8%, or \$40,000, sourcing/transaction fee. In addition, the Company will reimburse Lambda Investors legal fees incurred in connection with the note in the amount of \$50,000 as well as Lambda Investors legal fees incurred in connection with a proposed rights offering in the amount of \$50,000. Those payments will be paid upon the completion of the rights offering or, if earlier, upon the maturity of the note.

Lambda Investors is the Company's largest stockholder and beneficially owns approximately 44% of its outstanding common stock, including warrants to purchase an aggregate of 7,190,811 shares of its common stock. The warrants held by Lambda Investors have an exercise price of \$0.90 per share and have full ratchet anti-dilution protection. The shares beneficially owned by Lambda Investors may be deemed beneficially owned by Wexford Capital LP, which is the managing member of Lambda Investors. One of the Company's directors is a partner and general counsel of Wexford Capital. Another of the Company's directors and Acting Chief Executive Officer is a vice president of Wexford Capital.

The Company, on October 1, 2010, withdrew the Form S-1 that was filed with the Securities and Exchange Commission on May 21, 2010.

On October 1, 2010, the Company filed with the Securities and Exchange Commission a Registration Statement on Form S-1 relating to the proposed rights offering to raise up to \$3.5 million from its existing stockholders.

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PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the estimated costs and expenses payable by the registrant in connection with the sale of the securities being registered. All amounts are estimates.

Printing and distribution expenses	\$ 16,000
Legal fees and expenses	\$ 140,000
Accounting fees and expenses	\$ 10,000
Blue Sky fees and expenses	\$ 6,000
Subscription and information agent fees	\$ 18,000
Miscellaneous	\$ 10,000
Total	\$ 200,000

Item 14. Indemnification of Directors and Officers.

Section 145 of the Delaware General Corporation Law, or DGCL, permits a corporation, under specified circumstances, to indemnify its directors, officers, employees or agents against expenses (including attorneys' fees), judgments, fines and amounts paid in settlements actually and reasonably incurred by them in connection with any action, suit or proceeding brought by third parties by reason of the fact that they were or are directors, officers, employees or agents of the corporation, if such directors, officers, employees or agents acted in good faith and in a manner they reasonably believed to be in or not opposed to the best interests of the corporation and, with respect to any criminal action or proceeding, had no reason to believe their conduct was unlawful. In a derivative action, that is one by or in the right of the corporation, indemnification may be made only for expenses actually and reasonably incurred by directors, officers, employees or agents in connection with the defense or settlement of an action or suit, and only with respect to a matter as to which they will have acted in good faith and in a manner they reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification will be made if such person will have been adjudged liable to the corporation, unless and only to the extent that the court in which the action or suit was brought will determine upon application that the defendant directors, officers, employees or agents are fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

Our Fourth Amended and Restated Certificate of Incorporation, as amended, provides for indemnification of our directors and officers of the registrant to the fullest extent permitted by the DGCL. Our Second Amended and Restated By-Laws provides that we will generally indemnify our directors, officers, employees or agents to the fullest extent permitted by the law against all losses, claims, damages or similar events. We have obtained liability insurance for each director and officer for certain losses arising from claims or charges made against them while acting in their capacities as directors or officers of our company.

Item 15. Recent Sales of Unregistered Securities.

On July 24, 2009, we raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of our common stock and warrants to purchase an aggregate of 672,581 shares of

our common stock, representing 50% of the shares of common stock purchased by each investor. We sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014.

In September 2007, we entered into a Subscription Agreement with Lambda Investors LLC, GPC 76, LLC, Lewis P. Schneider and Enso Global Equities Partnership LP (collectively, the New Investors) pursuant to which the New Investors purchased an aggregate of approximately \$12.7 million principal amount of Series A 10% Secured Convertible Notes due 2008 (the Purchased Notes) of Nephros, for the face value thereof (the Offering).

Concurrently with the Offering, Nephros entered into an Exchange Agreement with each of Southpaw Credit Opportunity Master Fund LP, 3V Capital Master Fund Ltd, Distressed/High Yield Trading Opportunities, Ltd., Kudu Partners, L.P. and LJHS Company (collectively, the Exchange Investors and

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together with the New Investors, the Investors), pursuant to which the Exchange Investors agreed to exchange the principal and accrued but unpaid interest in an aggregate amount of approximately \$5.6 million under the 6% Secured Convertible Notes due 2012 (Old Notes) of Nephros, for new Series B 10% Secured Convertible Notes due 2008 in an aggregate principal amount of \$5.3 million (the Exchange Notes).

All principal and accrued but unpaid interest under the New Notes automatically converted into (i) an aggregate of 18,255,128 shares of our common stock, par value \$0.001 per share at a conversion price per share equal to \$0.706 and (ii) in the case of Purchased Notes, but not Exchange Notes, Class D Warrants to purchase an aggregate of 9,112,566 shares of common stock with an exercise price per share equal to \$0.706.

National Securities Corporation, or NSC, and Dinosaur Securities, LLC, or Dinosaur, acted as co-placement agents in connection with the Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The co-placement agents received (i) an aggregate cash fee equal to 8% of the face amount of the Purchased Notes, allocated and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants with a term of five years from the date of issuance to purchase an aggregate of 1,756,374 shares of common stock at an exercise price of \$0.706 per share.

Lambda Investors LLC has committed to purchase, through a private placement evidenced by a purchase agreement, 60,194,226 Units, which amount equals the number of Units that would otherwise be available for purchase by Lambda Investors pursuant to the exercise of its basic subscription privilege, at the rights offering subscription price of \$0.02 per Unit, so long as certain conditions are met, including that stockholders not affiliated with Lambda Investors subscribe for at least 87,500,000 of the Units offered in the rights offering. In addition, under the purchase agreement, Lambda Investors has the right to purchase, at the rights offering subscription price, that number of Units that would otherwise be available for purchase by Lambda Investors pursuant to its over-subscription privilege in the event our other stockholders do not exercise their basic subscription privileges in full and Lambda Investors purchases 60,194,266 Units under the purchase agreement. Lambda Investors is not receiving any compensation for its purchase commitment.

The sales of the securities described above were not registered under the Securities Act because they were made in transactions exempt from registration under Section 4(2) of the Securities Act.

Item 16. Exhibits

(a) *Exhibits.* The following exhibits are filed as part of this registration statement:

Exhibit No.	Description
3.1	Fourth Amended and Restated Certificate of Incorporation of the Registrant. ⁽⁵⁾
3.2	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant. ⁽¹³⁾
3.3	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant. ⁽¹³⁾
3.4	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant as filed with the Delaware Secretary of State on November 13, 2007. ⁽¹⁴⁾
3.5	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant as filed with the Delaware Secretary of State on October 26, 2009. ⁽²⁴⁾

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- 3.6 Second Amended and Restated By-Laws of the Registrant.⁽¹⁶⁾
- 4.1 Specimen of Common Stock Certificate of the Registrant.⁽¹⁾
- 4.2 Form of Underwriter s Warrant⁽¹⁾
- 4.3 Warrant for the purchase of shares of common stock dated January 18, 2006, issued to Marty Steinberg, Esq., as Court-appointed Receiver for Lancer Offshore, Inc.⁽¹⁷⁾
- 4.4 Form of Series A 10% Secured Convertible Note due 2008 convertible into Common Stock and Warrants.⁽¹⁵⁾
- 4.5 Form of Series B 10% Secured Convertible Note due 2008 convertible into Common Stock.⁽¹⁵⁾
- 4.6 Form of Class D Warrant.⁽¹⁵⁾

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Exhibit No.	Description
4.7	Form of Placement Agent Warrant. ⁽¹⁵⁾
4.8	Form of Investor Warrant issued on July 24, 2009. ⁽²⁰⁾
4.9	Form of Warrant Certificate.
4.10	Form of Warrant Agreement between the Registrant and Continental Stock Transfer & Trust Company.
4.11	Form of Subscription Rights Certificate.
5.1	Opinion of Wyrick Robbins Yates & Ponton LLP as to the legality of the securities being registered.
10.1	Amended and Restated 2000 Nephros Equity Incentive Plan. ⁽¹⁾⁽²⁾
10.2	2004 Nephros Stock Incentive Plan. ⁽¹⁾⁽²⁾
10.3	Amendment No. 1 to 2004 Nephros Stock Incentive Plan. ⁽²⁾⁽⁵⁾
10.4	Amendment No. 2 to the Nephros, Inc. 2004 Stock Incentive Plan. ⁽¹⁴⁾
10.5	Form of Subscription Agreement dated as of June 1997 between the Registrant and each Purchaser of Series A Convertible Preferred Stock. ⁽¹⁾
10.6	Amendment and Restatement to Registration Rights Agreement, dated as of May 17, 2000 and amended and restated as of June 26, 2003, between the Registrant and the holders of a majority of Registrable Shares (as defined therein). ⁽¹⁾
10.7	Employment Agreement dated as of November 21, 2002 between Norman J. Barta and the Registrant. ⁽¹⁾⁽²⁾
10.8	Amendment to Employment Agreement dated as of March 17, 2003 between Norman J. Barta and the Registrant. ⁽¹⁾⁽²⁾
10.9	Amendment to Employment Agreement dated as of May 31, 2004 between Norman J. Barta and the Registrant. ⁽¹⁾⁽²⁾
10.10	Employment Agreement effective as of July 1, 2007 between Nephros, Inc. and Norman J. Barta. ⁽¹⁴⁾
10.11	Form of Employee Patent and Confidential Information Agreement. ⁽¹⁾
10.12	Form of Employee Confidentiality Agreement. ⁽¹⁾
10.13	Settlement Agreement and Mutual Release dated June 19, 2002 between Plexus Services Corp. and the Registrant. ⁽¹⁾
10.14	Settlement Agreement dated as of January 31, 2003 between Lancer Offshore, Inc. and the Registrant. ⁽¹⁾
10.15	Settlement Agreement dated as of February 13, 2003 between Hermitage Capital Corporation and the Registrant. ⁽¹⁾
10.16	Supply Agreement between Nephros, Inc. and Membrana GmbH, dated as of December 17, 2003. ⁽¹⁾⁽³⁾
10.17	Amended Supply Agreement between Nephros, Inc. and Membrana GmbH dated as of June 16, 2005. ⁽³⁾⁽⁷⁾
10.18	Manufacturing and Supply Agreement between Nephros, Inc. and Medica s.r.l., dated as of May 12, 2003. ⁽¹⁾⁽³⁾
10.19	Manufacturing and Supply Agreement between Nephros, Inc. and Medica s.r.l., dated as of March 22, 2005 supercedes prior Agreement dated May 12, 2003. ⁽³⁾⁽⁸⁾
10.20	HDF-Cartridge License Agreement dated as of March 2, 2005 between Nephros, Inc. and Asahi Kasei Medical Co., Ltd. ⁽⁴⁾
10.21	Subscription Agreement dated as of March 2, 2005 between Nephros, Inc. and Asahi Kasei Medical Co., Ltd. ⁽⁴⁾

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Exhibit No.	Description
10.22	Non-employee Director Compensation Summary. ⁽²⁾⁽⁶⁾
10.23	Named Executive Officer Summary of Changes to Compensation. ⁽²⁾⁽⁶⁾
10.24	Stipulation of Settlement Agreement between Lancer Offshore, Inc. and Nephros, Inc. approved on December 19, 2005. ⁽⁸⁾
10.25	Consulting Agreement, dated as of January 11, 2006, between the Company and Bruce Prashker. ⁽²⁾⁽⁸⁾
10.26	Summary of Changes to Chief Executive Officer's Compensation. ⁽²⁾⁽⁸⁾
10.27	Offer of Employment Agreement, dated as of February 24, 2006, between the Company and Mark W. Lerner. ⁽²⁾⁽⁸⁾
10.28	Form of 6% Secured Convertible Note due 2012 for June 1, 2006 Investors. ⁽⁹⁾
10.29	Form of Common Stock Purchase Warrant. ⁽⁹⁾
10.30	Form of Subscription Agreement, dated as of June 1, 2006. ⁽⁹⁾
10.31	Form of Registration Rights Agreement, dated as of June 1, 2006. ⁽⁹⁾
10.32	Form of 6% Secured Convertible Note due 2012 for June 30, 2006 Investors. ⁽¹⁰⁾
10.33	Form of Subscription Agreement, dated as of June 30, 2006. ⁽¹⁰⁾
10.34	Employment Agreement between Nephros, Inc. and William J. Fox, entered into on August 2, 2006. ⁽²⁾⁽¹¹⁾
10.35	Addendum to the Commercial Contract between Nephros, Inc. and Bellco S.p.A, effective as of January 1, 2007. ⁽³⁾⁽¹²⁾
10.36	Form of Subscription Agreement between Nephros and Subscriber. ⁽¹⁵⁾
10.37	Exchange Agreement, dated as of September 19, 2007, between Nephros and the Holders. ⁽¹⁵⁾
10.38	Registration Rights Agreement, dated as of September 19, 2007, among Nephros and the Holders. ⁽¹⁵⁾
10.39	Investor Rights Agreement, dated as of September 19, 2007, among Nephros and the Covered Holders as defined therein. ⁽¹⁵⁾
10.40	Placement Agent Agreement, dated as of September 18, 2007, among Nephros, NSC and Dinosaur. ⁽¹⁵⁾
10.41	License Agreement, dated October 1, 2007, between The Trustees of Columbia University in the City of New York, and Nephros. ⁽¹⁷⁾
10.42	Employment Agreement, dated as of April 1, 2008, between Nephros, Inc. and Gerald Kochanski. ⁽²⁾⁽¹⁸⁾
10.43	Separation Agreement and Release, dated as of April 28, 2008, between Nephros, Inc. and Mark W. Lerner. ⁽²⁾⁽¹⁸⁾
10.44	Separation Agreement and Release, dated as of September 15, 2008, between Nephros, Inc. and Norman J. Barta. ⁽²⁾⁽¹⁹⁾
10.45	Employment Agreement, dated as of September 15, 2008, between Nephros, Inc. and Ernest A. Elgin III. ⁽²⁾⁽¹⁹⁾
10.46	Amendment No. 3 to the Nephros, Inc. 2004 Stock Incentive Plan. ⁽²⁰⁾
10.47	Distribution Agreement between Nephros, Inc. and OLS, dated as of November 26, 2008.
10.48	Lease Agreement between Nephros International LTD and Coldwell Banker Penrose & O Sullivan dated November 30, 2008.
10.49	Distribution Agreement between Nephros, Inc. and Aqua Sciences, Inc., dated as of December 3, 2008.
10.50	Sales Management Agreement between Nephros, Inc. and Steve Adler, dated as of December 16, 2008.

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Exhibit No.	Description
10.51	Form of Subscription Agreement between Nephros, Inc. and various investors, dated July 24, 2009. ⁽²¹⁾
10.52	Separation, Release and Consulting Agreement between Nephros, Inc. and Ernest A. Elgin III. ⁽²²⁾
10.53	Consulting Agreement between Nephros, Inc. and John Shallman, dated as of January 2, 2009. ⁽²³⁾
10.54	Authorized Representative Services Agreement between Nephros, Inc. and Donawa Lifescience Consulting Srl, dated as of June 1, 2009. ⁽²²⁾
10.55	Consulting Agreement between Nephros, Inc. and Barry A. Solomon, PhD., dated as of December 8, 2009. ⁽²³⁾
10.56	Senior Secured Note dated October 1, 2010 issued to Lambda Investors LLC.
10.57	Form of Registration Rights Agreement, dated as of _____, 2010, by and between the Registrant and Lambda Investors LLC.
10.58*	Purchase Agreement, dated as of October 1, 2010, by and between the Registrant and Lambda Investors LLC.
21.1	Subsidiaries of Registrant. ⁽¹²⁾
23.1*	Consent of Rothstein Kass, Certified Public Accountants.
23.2	Consent of Wyrick Robbins Yates & Ponton LLP (contained in Exhibit 5.1).
24.1	Power of Attorney (included on the signature page).
99.1	Form of Instructions for Use of Subscription Certificates.
99.2	Form of Notice of Guaranteed Delivery.
99.3	Form of Letter to Stockholders from the Company.
99.4	Form of Letter to Nominee Holders whose Clients are Beneficial Holders.
99.5	Form of Letter to Clients of Nominee Holders.
99.6	Form of Nominee Holder Certification.
99.7	Form of Beneficial Owner Election.

*

Filed herewith.
Previously filed.

- (1) Incorporated by reference to Nephros, Inc.'s Registration Statement on Form S-1, File No. 333-116162.
- (2) Management contract or compensatory plan arrangement.
- (3) Portions omitted pursuant to a request for confidential treatment.
- (4) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K Filed with the Securities and Exchange Commission on March 3, 2005.
- (5) Incorporated by reference to Nephros, Inc.'s Registration Statement on Form S-8 (No. 333-127264), as filed with the Securities and Exchange Commission on August 5, 2005.
- (6) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB, filed with the Securities and Exchange Commission on May 16, 2005.
- (7) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB, filed with the Securities and Exchange Commission on August 15, 2005.
- (8) Incorporated by reference to Nephros, Inc.'s Annual Report on Form 10-KSB, filed with the Securities and Exchange Commission on April 20, 2006.
- (9) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on June 2, 2006.
- (10)

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Incorporated by reference to Nephros, Inc. s Current Report on Form 8-K filed with the Securities and Exchange Commission on July 7, 2006.

(11) Incorporated by reference to Nephros, Inc. s Current Report on Form 8-K filed with the Securities and Exchange Commission on August 4, 2006.

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- (12) Incorporated by reference to Nephros, Inc. s Annual Report on Form 10-KSB for the year ended December 31, 2006, filed with the Securities and Exchange Commission on April 10, 2007.
- (13) Incorporated by reference to Nephros, Inc. s Quarterly Report on Form 10-QSB for the quarter ended June 30, 2007, filed with the Securities and Exchange Commission on August 13, 2007.
- (14) Incorporated by reference to Nephros, Inc. s Quarterly Report on Form 10-QSB for the quarter ended September 30, 2007, filed with the Securities and Exchange Commission on November 13, 2007.
- (15) Incorporated by reference to Nephros, Inc. s Current Report on Form 8-K filed with the Securities and Exchange Commission on September 25, 2007.
- (16) Incorporated by reference to Nephros, Inc. s Current Report on Form 8-K filed with the Securities and Exchange Commission on December 3, 2007.
- (17) Incorporated by reference to Nephros, Inc. s Annual Report on Form 10-KSB for the year ended December 31, 2007, filed with the Securities and Exchange Commission on March 31, 2008.
- (18) Incorporated by reference to Nephros, Inc. s Quarterly Report on Form 10-Q for the quarter ended March 31, 2008, filed with the Securities and Exchange Commission on May 15, 2008.
- (19) Incorporated by reference to Nephros, Inc. s Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed with the Securities and Exchange Commission on November 14, 2008.
- (20) Incorporated by reference to Nephros, Inc. s Annual Report on Form 10-K for the year ended December 31, 2008, filed with the Securities and Exchange Commission on March 31, 2009.
- (21) Incorporated by reference to Nephros, Inc. s Quarterly Report on Form 10-Q for the quarter ended June 30, 2009, filed with the Securities and Exchange Commission on August 14, 2009.
- (22) Incorporated by reference to Nephros, Inc. s Current Report on Form 8-K filed with the Securities and Exchange Commission on March 30, 2010.
- (23) Incorporated by reference to Nephros, Inc. s Annual Report on Form 10-K for the year ended December 31, 2009, filed with the Securities and Exchange Commission on April 2, 2010.
- (24) Incorporated by reference to Nephros, Inc. s Registration Statement on Form S-1, File No. 333-162781.

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Item 17. Undertakings.

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933 (the Act); To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement; and
- (ii) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in this registration statement.
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in this registration statement.

(2) That, for the purpose of determining any liability under the Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(5) That, for the purpose of determining liability under the Act to any purchaser, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is a part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(6) That, for the purpose of determining liability of the registrant under the Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of an undersigned registrant relating to this offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to this offering prepared by, or on behalf of, the undersigned registrant or used or referred to by the undersigned registrant;
- (iii)

The portion of any other free writing prospectus relating to this offering containing material information about an undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
(iv) Any other communication that is an offer in this offering made by the undersigned registrant to the purchaser.

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(c) The undersigned registrant hereby undertakes to supplement the prospectus, after the expiration of the subscription period, to set forth the results of the subscription offer and the amount of unsubscribed securities to be offered to the public. If any public offering of the securities is to be made on terms differing from those set forth on the cover page of the prospectus, a post-effective amendment will be filed to set forth the terms of such offering.

(h) Insofar as indemnification for liabilities arising under the Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of River Edge, State of New Jersey, on December 21, 2010.

NEPHROS, INC.

By:

Date: December 21, 2010

/s/ Paul A. Mieyal

Name: Paul A. Mieyal

Title: Acting Chief Executive Officer and Director

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Paul A. Mieyal Paul A. Mieyal	Acting Chief Executive Officer (Principal Executive Officer) and Director	December 21, 2010
/s/ Gerald J. Kochanski Gerald J. Kochanski	Chief Financial Officer (Principal Financial and Accounting Officer)	December 21, 2010
/s/ Arthur H. Amron Arthur H. Amron	Director	December 21, 2010
/s/ Lawrence J. Centella Lawrence J. Centella	Director	December 21, 2010
/s/ James S. Scibetta* James S. Scibetta	Director	December 21, 2010

*By:

/s/ Gerald J. Kochanski
Gerald J. Kochanski
Attorney-in-Fact

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