ENDOLOGIX INC /DE/ Form S-3 May 31, 2018 Table of Contents

As filed with the Securities and Exchange Commission on May 31, 2018

Registration No. 333-

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-3

REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

ENDOLOGIX, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of

68-0328265 (IRS Employer

incorporation or organization)

Identification No.)

2 Musick

Irvine, California 92618

(949) 595-7200

(Address, including zip code and telephone number, including area code, of the registrant s principal executive offices)

John Onopchenko

Chief Executive Officer

Endologix, Inc.

2 Musick

Irvine, California 92618

(949) 595-7200

(Name, address, including zip code and telephone number, including area code, of the agent for service)

Copies to:

Jeremy Hayden Ryan C. Wilkins

General Counsel Stradling Yocca Carlson & Rauth

Endologix, Inc. 660 Newport Center Drive, Suite 1600

2 Musick Newport Beach, California 92660

Irvine, California 92618 (949) 725-4000

(949) 595-7200

Approximate date of commencement of proposed sale to the public:

From time to time after the effective date of this registration statement.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

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, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

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

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.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definitions of large accelerated filer, accelerated filer, smaller reporting company, and emerging growth company in Rule 12b-2 of the Securities and Exchange Act of 1934, as amended.

Large accelerated filer Accelerated filer

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

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

CALCULATION OF REGISTRATION FEE

Title of Each Class of	Amount to be	Proposed Maximum Offering Price	Proposed Maximum Aggregate	Amount of
Securities to be Registered	Registered ⁽¹⁾	Per Unit ⁽¹⁾⁽²⁾	Offering Price ⁽¹⁾⁽²⁾	Registration Fee ⁽³⁾
Common stock, \$0.001 par value per	_		_	_
share				
Preferred stock, \$0.001 par value per				
share				
Warrants				
Units ⁽⁴⁾				
Total			\$100,000,000	\$12,450.00

- (1) This registration statement covers the registration of such indeterminate number of shares of common stock and preferred stock; such indeterminate number of warrants to purchase shares of common stock, shares of preferred stock, and/or units; and such indeterminate number of units as may be sold by the registrant from time to time, which together shall have an aggregate initial offering price not to exceed \$100,000,000. Any securities registered hereunder may be sold separately or as units with any other securities registered hereunder. The securities registered hereunder also include such indeterminate number of shares of common stock, shares of preferred stock, and warrants as may be issued upon the conversion of or exchange for preferred stock; upon the exercise of warrants; or pursuant to the anti-dilution provisions of any such securities. In addition, pursuant to Rule 416 under the Securities Act of 1933, as amended, or the Securities Act, the securities being registered hereunder include such indeterminate number of shares of common stock or preferred stock as may be issuable with respect to the shares being registered hereunder as a result of stock splits, stock dividends or similar transactions.
- (2) The proposed maximum aggregate offering price per unit will be determined from time to time by the Registrant in connection with, and at the time of, the issuance of the securities and is not specified as to each class of security pursuant to General Instruction II.D. of Form S-3.
- (3) Calculated pursuant to Rule 457(o) under the Securities Act based on the proposed maximum aggregate offering price of all securities listed.
- (4) Each unit will represent an interest in two or more other securities, which may or may not be separable from one another.

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 or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This registration statement contains two prospectuses:

a base prospectus, which covers the offering, issuance and sale of up to \$100,000,000 of our common stock, preferred stock, warrants and/or units; and

a prospectus supplement relating to the offer and sale of up to \$50,000,000 of our common stock pursuant to a sales agreement with Stifel, Nicolaus & Company, Incorporated.

The base prospectus immediately follows this explanatory note. The specific terms of any securities to be offered pursuant to the base prospectus will be specified in a prospectus supplement to the base prospectus. The prospectus supplement with respect to the sales agreement immediately follows the base prospectus. The shares of common stock that may be offered, issued and sold under that prospectus supplement are included in the \$100,000,000 of securities that may be offered, issued and sold by us under the base prospectus. Upon termination of the sales agreement, any portion of the \$50,000,000 included in the prospectus supplement that is not sold pursuant to the sales agreement will be available for sale in other offerings pursuant to the base prospectus.

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 and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

PRELIMINARY PROSPECTUS

SUBJECT TO COMPLETION, DATED MAY 31, 2018

\$100,000,000

ENDOLOGIX, INC.

Common Stock

Preferred Stock

Warrants

Units

We may offer and sell, from time to time in one or more offerings, any combination of common stock, preferred stock, warrants and/or units having an aggregate initial offering price not to exceed \$100,000,000. The preferred stock may be convertible into or exchangeable for other shares of our preferred stock, shares of our common stock or warrants. The warrants may be exercisable for shares of our common stock, shares of our preferred stock, and/or units.

This prospectus provides a general description of the securities we may offer. Each time we sell a particular class of securities, we will provide specific terms of the securities offered in a supplement to this prospectus. The prospectus supplement may also add, update or change information in this prospectus. You should read this prospectus and any prospectus supplement, as well as the documents incorporated by reference or deemed to be incorporated by reference herein or therein, carefully before you invest in any of the securities offered pursuant to this prospectus.

This prospectus may not be used to offer or sell our securities unless accompanied by a prospectus supplement relating to the offered securities.

These securities may be sold directly by us, through dealers or agents designated from time to time, to or through underwriters or dealers or through a combination of these methods on a continuous or delayed basis. For additional information on the methods of sale, you should refer to the section entitled Plan of Distribution in this prospectus. We will describe the plan of distribution for any particular offering of our securities in a prospectus supplement. If any agents, underwriters or dealers are involved in the sale of any securities with respect to which this prospectus is being delivered, we will set forth in a prospectus supplement the names of such agents or underwriters and any applicable fees, commissions, discounts and over-allotment options. We will also set forth in a prospectus supplement the price to the public of such securities and the net proceeds we expect to receive from such sale.

Our common stock is listed on the NASDAQ Global Select Market and traded under the symbol ELGX. On May 30, 2018, the last reported sale price for our common stock on the NASDAQ Global Select Market was \$5.64 per share.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. YOU SHOULD REVIEW CAREFULLY THE RISKS AND UNCERTAINTIES DESCRIBED UNDER THE HEADING <u>RISK</u>

<u>FACTORS</u> BEGINNING ON PAGE 4 OF THIS PROSPECTUS, AS WELL AS THE RISKS AND UNCERTAINTIES DESCRIBED UNDER A SIMILAR HEADING IN ANY APPLICABLE PROSPECTUS SUPPLEMENT AND IN THE DOCUMENTS THAT WE INCORPORATE BY REFERENCE HEREIN OR THEREIN.

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

The date of this prospectus is , 2018

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC, using a shelf registration process. Under this shelf registration process, we may from time to time offer and sell any combination of the securities described in this prospectus in one or more offerings with an aggregate initial offering price not to exceed \$100,000,000. We have provided to you in this prospectus a general description of the securities we may offer. Each time we offer or sell any of our securities under this prospectus, we will, to the extent required by law, provide a prospectus supplement that will contain specific information about the terms of the offering.

We may add, update or change any of the information contained in this prospectus or in any accompanying prospectus supplement we may authorize to be delivered to you. To the extent there is a conflict between the information contained in this prospectus and any accompanying prospectus supplement, you should rely on the information in the prospectus supplement, provided that if any statement in one of these documents is inconsistent with a statement in another document having a later date for example, a document incorporated by reference in this prospectus or any prospectus supplement the statement in the document having the later date modifies or supersedes the earlier statement. Any statement so modified will be deemed to constitute a part of this prospectus only as so modified, and any statement so superseded will be deemed not to constitute a part of this prospectus. This prospectus, together with any accompanying prospectus supplement, includes all material information relating to an offering pursuant to this registration statement.

You should rely only on the information contained in this prospectus, in any accompanying prospectus supplement, or in any document incorporated by reference herein or therein. We have not authorized anyone to provide you with any different information. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may provide to you. The information contained in this prospectus, in any applicable prospectus supplement, and in the documents incorporated by reference herein or therein is accurate only as of the date such information is presented. Our business, financial condition, results of operations and future prospects may have changed since those respective dates.

This prospectus and any accompanying prospectus supplement does not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor does this prospectus and any accompanying prospectus supplement constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. This prospectus may not be used to offer or sell our securities unless accompanied by a prospectus supplement relating to the offered securities.

The registration statement containing this prospectus, including the exhibits to the registration statement, provides additional information about us and the securities offered pursuant to this prospectus. For a more complete understanding of the offering of the securities, you should refer to the registration statement, including its exhibits. The registration statement can be read on the SEC s website or at the SEC s offices mentioned under the heading Where You Can Find More Information.

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SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus, any accompanying prospectus supplement, and the documents incorporated by reference herein and therein, contain forward-looking statements within the meaning of the federal securities laws. These forward-looking statements are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact included in this prospectus, any accompanying prospectus supplement, or the documents incorporated by reference herein or therein, are forward looking statements.

Our forward-looking statements are based on our management s current assumptions and expectations of future events and trends, which affect or may affect our business, strategy, operations or financial performance. Although we believe these forward-looking statements are based upon reasonable assumptions, they are subject to numerous known and unknown risks and uncertainties and are made in light of information currently available to us. Many important factors, in addition to the factors described in this prospectus, may materially and adversely affect our results as indicated in our forward-looking statements. You should read this prospectus, any accompanying prospectus supplement, and the documents we incorporate by reference herein and therein, completely and with the understanding that our actual future results may be materially different from and worse than what we expect.

Moreover, we operate in an evolving environment. New risk factors and uncertainties emerge from time to time and it is not possible for our management to predict all risk factors and uncertainties, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.

Forward-looking statements speak only as of the date they were made, and, except to the extent required by law or the rules of the NASDAQ Stock Market, we undertake no obligation to update or review any forward-looking statement because of new information, future events or other factors. You should, however, review the risks and uncertainties we describe in the reports we will file from time to time with the SEC, after the date of this prospectus. See the information included under the heading Where You Can Find More Information.

Forward-looking statements involve risks and uncertainties and are not guarantees of future performance. As a result of the risks and uncertainties described above, the forward-looking statements discussed in this prospectus might not occur and our future results and performance may differ materially from the information provided in these forward-looking statements due to, but not limited to, the factors mentioned above. Because of these uncertainties, you should not place undue reliance on these forward-looking statements when making an investment decision.

We qualify all of our forward-looking statements by these cautionary statements.

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ABOUT THE COMPANY

Overview

We develop, manufacture, market, and sell innovative medical devices for the treatment of aortic disorders. Our products are intended for the minimally invasive endovascular treatment of abdominal aortic aneurysms (AAA). Our AAA products are built on one of two platforms:

Traditional minimally-invasive endovascular aneurysm repair (EVAR); and

Endovascular aneurysm sealing (EVAS), our innovative solution for sealing the aneurysm sac while maintaining blood flow through two blood flow lumens.

Our current EVAR products include the AFX® Endovascular AAA System (the AFX System), the VE®Aroximal Endograft (VELA), and the OvationAbdominal Stent Graft System (the Ovation System). Our current EVAS product is the Nellix® Endovascular Aneurysm Sealing System (the Nellix EVAS System). We sell our EVAR platforms (including extensions and accessories) to hospitals in the United States, Canada, New Zealand, South Korea and Europe, and our EVAS platform to hospitals in New Zealand and Europe. We sell our EVAR and EVAS platforms (including extensions and accessories) to third-party international distributors and agents in Asia, Europe, South America and in other parts of the world. Such sales of our EVAR and EVAS platforms provide the sole source of our reported revenue.

Endologix[®], AFX[®], Duraply[®], VELA[®], IntuiTrak[®], ActiveSeal[®], Nellix[®], Ovation[®], Ovation Prime[®], Ovation Alto[®], and CustomSeal[®] are registered trademarks of Endologix, Inc. and its subsidiaries.

We have obtained CE Mark approval for the Nellix EVAS System in the European Union. The Nellix EVAS System is only approved as an investigational device in the United States. Ovation Alto, our next generation Ovation System device, is only approved as an investigational device and is not currently approved in any market.

Corporate Information

We were incorporated in California in March 1992 under the name Cardiovascular Dynamics, Inc. and reincorporated in Delaware in June 1993. In January 1999, we merged with Radiance Medical Systems, Inc. and changed our name to Radiance Medical Systems, Inc., which was a privately-held corporation. In May 2002, we merged with Endologix, Inc., which was a privately held corporation, and changed our name to Endologix, Inc. Our main offices are located at 2 Musick, Irvine, California 92618, and our telephone number is (949) 595-7200. Additional information about Endologix, Inc. and our products is available through our website at www.endologix.com. The information contained on or accessed through our website is not incorporated by reference into this prospectus, and you should not consider information contained on our website to be a part of this prospectus or in deciding whether to purchase our securities. References in this prospectus to our website are to inactive textual references only.

RISK FACTORS

Investing in our securities involves a high degree of risk. Before making an investment decision, you should carefully consider the risks described in the sections entitled Risk Factors in our most recent Annual Report on Form 10-K and subsequent Quarterly Reports on Form 10-Q, as filed with the SEC, which are incorporated by reference in this prospectus in their entirety, as well as any amendments or updates to our risk factors reflected in subsequent filings with the SEC, including any applicable prospectus supplement. If any of these risks actually occur, our business, financial condition, results of operations and future prospects could be materially and adversely affected. In that case, the trading price of our securities could decline and you might lose all or part of your investment. For more information, see Where You Can Find More Information.

The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business, financial condition or results of operations.

This prospectus and the documents we incorporate by reference in this prospectus contain forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks and uncertainties mentioned elsewhere in this prospectus. For more information, see Special Note Regarding Forward-Looking Information.

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USE OF PROCEEDS

We intend to use the net proceeds we receive from the sale of our securities, and from the exercise of any warrants issued pursuant hereto, for working capital and other general corporate purposes.

We may set forth additional information regarding the anticipated use of proceeds from the sale of securities we offer under this prospectus in a prospectus supplement relating to the specific offering. We have not determined the amount of net proceeds to be used from any specific offering. As a result, our management will have broad discretion in the allocation of the net proceeds.

THE SECURITIES WE MAY OFFER

We may offer and sell, from time to time in one or more offerings, any combination of common stock, preferred stock, warrants, and/or units having an aggregate initial offering price not to exceed \$100,000,000. The preferred stock may be convertible into or exchangeable for other shares of our preferred stock, shares of our common stock or warrants. The warrants may be exercisable for shares of our common stock, shares of our preferred stock, and/or units. In this prospectus, we refer to the common stock, preferred stock, warrants and units that we may offer collectively as securities.

This prospectus provides a general description of the securities we may offer. Each time we sell any of our securities under this prospectus, we will, to the extent required by law, provide a prospectus supplement that will contain specific information about the terms of the offering. The prospectus supplement may also add, update or change information in this prospectus. For more information, see About this Prospectus.

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DESCRIPTION OF CAPITAL STOCK

The following is a summary of all material characteristics of our capital stock as set forth in our amended and restated certificate of incorporation, as amended, or our Charter, and our amended and restated bylaws, or our Bylaws. The summary does not purport to be complete and is qualified in its entirety by reference to our Charter and our Bylaws, copies of which have been filed as exhibits to our SEC filings. For more information, see Where You Can Find More Information.

Common Stock

General. We may issue shares of our common stock from time to time. We are currently authorized to issue 135,000,000 shares of common stock, par value \$0.001 per share. As of March 31, 2018, there were 83,996,817 shares of our common stock issued and outstanding. Pursuant to a definitive proxy statement filed with the SEC on April 30, 2018, we have asked our stockholders to approve an amendment to our Charter to increase the total number of authorized shares of our common stock by 35,000,000 shares, from 135,000,000 shares to 170,000,000 shares, or the Charter Amendment Proposal. If our stockholders approve the Charter Amendment Proposal at our annual meeting of stockholders to be held on June 14, 2018, we will be authorized to issue 170,000,000 shares of our common stock, par value \$0.001 per share. 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 of our outstanding preferred stock.

Dividend Rights. Subject to preferences that may be applicable to any then outstanding shares of preferred stock, holders of common stock are entitled to receive ratably such dividends as may be declared by the board of directors out of funds legally available therefor.

Voting Rights. The 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. The holders of common stock are not entitled to cumulative voting rights with respect to the election of directors, and as a consequence, minority stockholders will not be able to elect directors on the basis of their votes alone.

No Preemptive, Conversion or Similar Rights. Holders of common stock have no preemptive rights and no right to convert their common stock into any other securities.

Right to Receive Liquidation Distributions. In the event of a liquidation, dissolution or winding up, holders of the common stock are entitled to share ratably in all assets remaining after payment of liabilities and the liquidation preferences of any then outstanding shares of preferred stock.

Fully Paid and Non-Assessable. All outstanding shares of common stock are, and all shares of common stock to be issued under this prospectus will be, fully paid and non-assessable.

Preferred Stock

Our Charter provides that our board of directors has the authority, without further action by the stockholders, to issue up to 5,000,000 shares of preferred stock in one or more series and to fix the number of shares constituting any series or the designation of a series and to determine or alter for each series or designation of a series the voting powers, if any, and the designations, preferences, and relative, participating, optional, or other rights, and the qualifications, limitations or restrictions, of any series or the designation of a series. Prior to the issuance of shares of each series of preferred stock, the board of directors is required by the General Corporation Law of the State of Delaware, or the DGCL, and our Charter, to adopt resolutions and file a certificate of designation with the Secretary of State of the

State of Delaware. The certificate of designation will establish, for each class or series of preferred stock, the rights, preferences, and privileges of such class or series.

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Whenever preferred stock is to be sold pursuant to this prospectus, we will file a prospectus supplement relating to that sale which will specify (in each case to the extent applicable):

the title and stated value of the preferred stock;

the number of shares of the preferred stock offered, the liquidation preference per share and the offering price of the preferred stock;

the dividend rate, period and payment date, and method of calculation for dividends;

whether dividends are cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;

any listing of the preferred stock on any securities exchange;

the provision for redemption of the preferred stock;

the terms and conditions upon which the preferred stock will be convertible into any other class of capital stock, including the conversion price;

voting rights of the preferred stock;

preemption rights;

the relative ranking and preferences of the preferred stock as to dividend rights and rights upon the liquidation, dissolution or winding up of our affairs;

limitations on issuance of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock as to dividend rights and rights if we liquidate, dissolve or wind up our affairs; and

any other specific terms, preferences, rights or limitations of, or restrictions on, the preferred stock. The DGCL provides that the holders of preferred stock will have the right to vote separately as a class on any proposed fundamental change in the rights of the preferred stock. This right is in addition to any voting rights that may be provided for in the applicable certificate of designation.

All shares of preferred stock offered by this prospectus will, when issued, be fully paid and nonassessable and will not have any preemptive or similar rights.

Delaware Law and Certain Certificate of Incorporation and Bylaw Provisions

The provisions of Delaware law, our Charter and our Bylaws may have the effect of delaying, deferring or discouraging another person from acquiring control of us by means of a tender offer, a proxy contest or otherwise, or removing incumbent officers and directors. These provisions, summarized below, are expected to discourage certain types of coercive takeover practices and takeover bids that our board of directors may consider inadequate and to encourage any person seeking to acquire control of us to first negotiate with our board of directors.

Delaware Law. We are governed by the provisions of Section 203 of the DGCL. In general, Section 203 prohibits a public Delaware corporation from engaging in a business combination with an interested stockholder for a period of three years after the date such stockholder became an interested stockholder. A business combination includes mergers, asset sales or other transactions resulting in a financial benefit to the stockholder. An interested stockholder is a person who, together with affiliates and associates, owns, or within three years did, prior to the determination of interested stockholder status, own, 15% or more of the corporation s outstanding voting stock. These provisions may have the effect of delaying, deferring or preventing a change in control of our company not approved in advance by our board of directors.

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Charter and Bylaw Provisions. Our Charter and our Bylaws also include a number of other provisions that may have the effect of deterring hostile takeovers or delaying or preventing changes in control or our management as follows:

Our Charter and our Bylaws provide for a classified board of directors comprised of three classes of directors with each class serving a staggered three-year term. Our directors may be removed with or without cause.

Our Bylaws provide that all stockholder action must be effected at a duly called meeting of stockholders and not by a consent in writing.

Our Bylaws provide that stockholders seeking to present proposals before a meeting of stockholders, or to nominate candidates for election as directors at a meeting of stockholders, must provide timely notice in writing. Our Bylaws also specify requirements as to the form and content of a stockholder s notice. These provisions may delay or preclude stockholders from bringing matters before a meeting of stockholders or from making nominations for directors at a meeting of stockholders, which could delay or deter takeover attempts or changes in management.

Our Bylaws provide that all vacancies, including newly created directorships, may, except as otherwise required by law, be filled by the affirmative vote of a majority of our directors then in office, even if less than a quorum.

Our board of directors has the authority to issue preferred stock, which could potentially be used to discourage attempts by third parties to obtain control of us through a merger, tender offer, proxy or consent solicitation or otherwise, by making those attempts more difficult to achieve or more costly.

NASDAO Global Select Market

Our common stock is listed on the NASDAQ Global Select Market and traded under the symbol ELGX. On May 30, 2018, the last reported sale price for our common stock on the NASDAQ Global Select Market was \$5.64 per share.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, LLC. The address of American Stock Transfer & Trust Company is 6201 15th Avenue, Brooklyn, NY 11219 and the telephone number is (718) 921-8200.

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DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of shares of common stock, shares of preferred stock and/or units, from time to time. We may issue warrants independently or together with common stock and/or preferred stock, and the warrants may be attached to or separate from those securities. If we issue warrants, they will be evidenced by warrant agreements or warrant certificates issued under one or more warrant agreements, which will be contracts between us and the holders of the warrants or an agent for the holders of the warrants. The forms of warrant agreements or warrant certificates, as applicable, relating to the warrants will be filed as exhibits to the registration statement that includes this prospectus, or as an exhibit to a filing with the SEC that is incorporated by reference into this prospectus.

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DESCRIPTION OF UNITS

We may issue units comprised of one or more of the other securities described in this prospectus in any combination from time to time. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. If we issue units, they will be evidenced by unit agreements or unit certificates issued under one or more unit agreements, which will be contracts between us and the holders of the units or an agent for the holders of the units. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date. The forms of unit agreements or unit certificates, as applicable, relating to the units will be filed as exhibits to the registration statement that includes this prospectus, or as an exhibit to a filing with the SEC that is incorporated by reference into this prospectus.

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PLAN OF DISTRIBUTION

We may sell our securities from time to time in any manner permitted by the Securities Act, including any one or more of the following ways:

through agents;	
to or through underwriters;	
to or through broker-dealers (acting as agent or principal);	
in at the market offerings , within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market, on an exchange or otherwise; and/or	
directly to purchasers, through a specific bidding or auction process or otherwise. The securities may be sold at a fixed price or prices, which may be changed, at market prices prevailing at the time of sale, at prices relating to the prevailing market prices or at negotiated prices.	of
Offers to purchase offered securities may be solicited by agents designated by us from time to time. Any agent involved in the offer or sale of the offered securities in respect of which this prospectus is delivered will be named, and any commissions payable by us will be set forth, in the applicable prospectus supplement. Unless otherwise set forth in the applicable prospectus supplement, any agent will be acting on a reasonable best efforts basis for the period its appointment. Any agent may be deemed to be an underwriter, as that term is defined in the Securities Act, of the offered securities so offered and sold.	
We will set forth in a prospectus supplement the terms of the offering of our securities, including:	
the name or names of any agents, underwriters or dealers;	
the type of securities being offered;	
the purchase price of our securities being offered and the net proceeds we expect to receive from the sale;	
any over-allotment options under which underwriters may purchase additional securities from us;	

any agency fees or underwriting discounts and commissions and other items constituting agents or underwriters compensation;

the public offering price;

any discounts or concessions allowed or reallowed or paid to dealers; and

any securities exchanges on which such securities may be listed.

If offered securities are sold to the public by means of an underwritten offering, either through underwriting syndicates represented by managing underwriters or directly by the managing underwriters, we will execute an underwriting agreement with an underwriter or underwriters, and the names of the specific managing underwriter or underwriters, as well as any other underwriters, will be set forth in the applicable prospectus supplement. In addition, the terms of the transaction, including commissions, discounts and any other compensation of the underwriters and dealers, if any, will be set forth in the applicable prospectus supplement, which prospectus supplement will be used by the underwriters to make resales of the offered securities. If underwriters are utilized in the sale of the offered securities, the offered securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including:

transactions on the NASDAQ Global Select Market or any other organized market where the securities may be traded;

in the over-the-counter market;

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in negotiated transactions; or

under delayed delivery contracts or other contractual commitments.

We may grant to the underwriters options to purchase additional offered securities to cover over-allotments, if any, at the public offering price with additional underwriting discounts or commissions, as may be set forth in the applicable prospectus supplement. If we grant any over-allotment option, the terms of the over-allotment option will be set forth in the applicable prospectus supplement.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

We may indemnify agents, underwriters and dealers against specified liabilities, including liabilities incurred under the Securities Act, or to contribution by us to payments they may be required to make in respect of such liabilities. Agents, underwriters or dealers, or their respective affiliates, may be customers of, engage in transactions with or perform services for us or our respective affiliates, in the ordinary course of business.

Unless otherwise specified in the applicable prospectus supplement, each class or series of securities will be a new issue with no established trading market, other than our common stock, which is traded on the NASDAQ Global Select Market. We may elect to list any other class or series of securities on any exchange and, in the case of our common stock, on any additional exchange. However, unless otherwise specified in the applicable prospectus supplement, we will not be obligated to do so. It is possible that one or more underwriters may make a market in a class or series of securities, but the underwriters will not be obligated to do so and may discontinue any market making at any time without notice. We cannot give any assurance as to the liquidity of the trading market for any of the offered securities.

Any underwriter may engage in over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Securities Exchange Act of 1934, as amended, or the Exchange Act. Over-allotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum price. Syndicate-covering or other short-covering transactions involve purchases of the securities, either through exercise of the over-allotment option or in the open market after the distribution is completed, to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a stabilizing or covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time.

To comply with the securities laws of certain states, if applicable, the securities offered by this prospectus will be offered and sold in those states only through registered or licensed brokers or dealers.

In compliance with guidelines of the Financial Industry Regulatory Authority, or FINRA, the maximum consideration or discount to be received by any FINRA member or independent broker dealer may not exceed 8% of the aggregate amount of the securities offered pursuant to this prospectus and any applicable prospectus supplement.

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LEGAL MATTERS

Certain legal matters, including the validity of the issuance of the securities offered by this prospectus, will be passed upon for us by Stradling Yocca Carlson & Rauth, P.C., Newport Beach, California.

EXPERTS

The consolidated financial statements and schedule of Endologix, Inc. as of December 31, 2017 and 2016 and for each of the years in the three-year period ended December 31, 2017, and management s assessment of the effectiveness of internal control over financial reporting as of December 31, 2017, have been incorporated by reference herein in reliance upon the reports of KPMG LLP, independent registered public accounting firm, incorporated by reference herein, and upon the authority of said firm as experts in accounting and auditing.

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INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to incorporate into this prospectus information that we file with the SEC in other documents. This means that we can disclose important information to you by referring to other documents that contain that information. Any information that we incorporate by reference into this prospectus is considered part of this prospectus.

Information contained in this prospectus and information that we file with the SEC in the future and incorporate by reference in this prospectus automatically modifies and supersedes previously filed information, including information in previously filed documents or reports that have been incorporated by reference in this prospectus, to the extent the new information differs from or is inconsistent with the old information. Any statement so modified will be deemed to constitute a part of this prospectus only as so modified, and any statement so superseded will be deemed not to constitute a part of this prospectus. For more information, see About this Prospectus.

We incorporate by reference, as of their respective dates of filing, the documents listed below that we have filed with the SEC and any future documents that we file with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, including any documents filed after the date of the initial registration statement of which this prospectus is a part until the offering of the securities covered by this prospectus has been completed, other than, in each case, documents or information deemed to have been furnished and not filed in accordance with SEC rules:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, or our Annual Report, filed with the SEC on March 13, 2018;

our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2017, or our Quarterly Report, filed with the SEC on May 9, 2018;

the information specifically incorporated by reference into our Annual Report from our Definitive Proxy Statement on Schedule 14A (Revised), filed with the SEC on April 30, 2018;

our Current Reports on Form 8-K as filed with the SEC on each of January 8, 2018, January 31, 2018, February 21, 2018 and May 2, 2018; and

the description of our common stock contained in our registration statement on Form 8-A, filed with the SEC on June 18, 1996, including any amendment or report filed for the purpose of updating such description. These filings have not been included in or delivered with this prospectus. We will provide to each person, including any beneficial owner to whom this prospectus is delivered, a copy of any document that is incorporated by reference in this prospectus. You may obtain a copy of these documents, at no cost, from our website (www.endologix.com) or by contacting us using the following information:

Endologix, Inc.

2 Musick

Irvine, California 92618

Attention: Investor Relations

(949) 595-7200

Exhibits to the documents will not be sent, however, unless those exhibits have specifically been incorporated by reference in this prospectus.

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You should rely only on the information contained in this prospectus, in any accompanying prospectus supplement, or in any document incorporated by reference herein or therein. We have not authorized anyone to provide you with any different information. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may provide to you. The information contained in this prospectus, in any applicable prospectus supplement, and in the documents incorporated by reference herein or therein is accurate only as of the date such information is presented. Our business, financial condition, results of operations and future prospects may have changed since those respective dates.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports 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. You may obtain information on the operation of the public reference room by calling the SEC at 1-800-SEC-0330. Our filings with the SEC also are available from the SEC s website at www.sec.gov, which contains reports, proxy and information statements, and other information regarding issuers that file electronically.

This prospectus is part of a registration statement that we filed with the SEC. As permitted by SEC rules, this prospectus and any accompanying prospectus supplement that we may file, which form a part of the registration statement, do not contain all of the information that is included in the registration statement. The registration statement contains more information regarding us and our securities, including certain exhibits. You can obtain a copy of the registration statement from the SEC at the address listed above or from the SEC s website.

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\$100,000,000

ENDOLOGIX, INC.

Common Stock

Preferred Stock

Warrants

Units

PROSPECTUS

, 2018

The information in this prospectus supplement 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 supplement is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED MAY 31, 2018

PROSPECTUS SUPPLEMENT

(To Prospectus dated , 2018)

Up to \$50,000,000

ENDOLOGIX, INC.

Common Stock

We have entered into an At-The-Market Equity Offering Sales Agreement, or the Sales Agreement, with Stifel, Nicolaus & Company, Incorporated, or Stifel, relating to our common stock offered by this prospectus supplement. In accordance with the terms of the Sales Agreement, we may offer and sell our common stock having an aggregate offering price of up to \$50,000,000 from time to time through Stifel acting as our agent.

Our common stock is listed on the NASDAQ Global Select Market under the symbol ELGX. On May 30, 2018, the last reported sale price of our common stock as reported on the NASDAQ Global Select Market was \$5.64 per share.

Sales of our common stock, if any, under this prospectus supplement may be made in sales deemed to be at the market offering as defined in Rule 415 promulgated under the Securities Act of 1933, as amended, or the Securities Act. Stifel, as sales agent, will use commercially reasonable efforts to sell on our behalf all of the shares requested to be sold by us, consistent with its normal trading and sales practices, on mutually agreed terms between Stifel and us. There is no arrangement for funds to be received in any escrow, trust or similar arrangement.

Stifel will be entitled to compensation at a fixed commission rate of up to 3.0% of the gross sales price per share sold through it as sales agent under the Sales Agreement. In connection with the sale of our common stock on our behalf, Stifel will be deemed to be an underwriter within the meaning of the Securities Act and the compensation of Stifel will be deemed to be underwriting commissions. We have also agreed to provide rights of indemnification and contribution to Stifel with respect to certain liabilities, including liabilities under the Securities Act.

INVESTING IN OUR COMMON STOCK INVOLVES A HIGH DEGREE OF RISK. YOU SHOULD REVIEW CAREFULLY THE RISKS AND UNCERTAINTIES DESCRIBED UNDER THE HEADING RISK FACTORS BEGINNING ON PAGE S-5 OF THIS PROSPECTUS SUPPLEMENT AND PAGE 33 OF OUR QUARTERLY REPORT ON FORM 10-Q FOR THE FISCAL QUARTER ENDED MARCH 31, 2018, AS WELL AS THE RISKS AND UNCERTAINTIES DESCRIBED IN THE OTHER DOCUMENTS WE FILE WITH THE SEC.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the securities being offered by this prospectus supplement or accompanying prospectus, or determined if this prospectus supplement or accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is , 2018.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This document is part of a registration statement that was filed with the Securities and Exchange Commission, or the SEC, using a shelf registration process and consists of two parts. The first part is the base prospectus, including the documents incorporated by reference therein, which provides general information. The second part, this prospectus supplement, including the documents incorporated by reference herein, describes the specific terms of this offering. In general, when we refer only to the prospectus, we are referring to both parts of this document combined.

Before you invest, you should carefully read this prospectus, all information incorporated by reference herein, as well as the additional information described under the heading Where You Can Find More Information. These documents contain information you should carefully consider when deciding whether to invest in our common stock.

This prospectus supplement may add, update or change information contained in the accompanying prospectus. To the extent there is a conflict between the information contained in this prospectus supplement and the accompanying prospectus, you should rely on information contained in this prospectus supplement, provided that if any statement in, or incorporated by reference into, one of these documents is inconsistent with a statement in another document having a later date, the statement in the document having the later date modifies or supersedes the earlier statement. Any statement so modified will be deemed to constitute a part of this prospectus only as so modified, and any statement so superseded will be deemed not to constitute a part of this prospectus.

You should rely only on the information contained in this prospectus, any document incorporated by reference herein, or any free writing prospectuses we may provide to you in connection with this offering. Neither we nor Stifel has authorized anyone to provide you with any different information. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may provide to you. The information contained in this prospectus, and in the documents incorporated by reference herein, is accurate only as of the date such information is presented. Our business, financial condition, results of operations and future prospects may have changed since those respective dates.

This prospectus does not constitute an offer to sell or the solicitation of an offer to buy any securities other than the shares of common stock to which it relates, nor does this prospectus constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction.

Unless otherwise indicated, information contained in or incorporated by reference into this prospectus concerning our industry and the markets in which we operate, including market opportunity, market position and competitive landscape, is based on information from our management s estimates, as well as from industry publications, surveys and studies conducted by third parties. Management estimates are derived from publicly available information, our knowledge of our industry, and assumptions based on such information and knowledge, which we believe to be reasonable. In addition, while we believe that information contained in the industry publications, surveys and studies has been obtained from reliable sources, the accuracy and completeness of such information is not guaranteed, and we have not independently verified any of the data contained in these third-party sources.

This prospectus, including the documents incorporated by reference herein, includes statements that are based on various assumptions and estimates that are subject to numerous known and unknown risks and uncertainties. Some of these risks and uncertainties are described in the section entitled Risk Factors beginning on page S-6 of this prospectus supplement and page 33 of our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2018, or our Quarterly Report, as well as the other documents we file with the SEC. These and other important factors could cause our future results to be materially different from the results expected as a result of, or implied by, these assumptions

and estimates. You should read the information contained in, or incorporated by

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reference into, this prospectus completely and with the understanding that future results may be materially different from and worse than what we expect. See the information included under the heading Special Note Regarding Forward-Looking Information.

This prospectus does not contain all of the information included in the registration statement of which this prospectus is a part. For a more complete understanding of the offering of the securities, you should refer to the registration statement, including its exhibits. The registration statement containing this prospectus, including the exhibits to the registration statement, provides additional information about us and the securities offered pursuant to this prospectus. The registration statement, including the exhibits, can be read on the SEC s website or at the SEC s offices mentioned under the heading Where You Can Find More Information.

PROSPECTUS SUPPLEMENT SUMMARY

This prospectus supplement summary discusses the key aspects of the offering and highlights certain information appearing elsewhere in this prospectus and in the documents we incorporate by reference herein. However, as this is a summary, it does not contain all of the information you should consider before deciding to invest in our common stock. You are encouraged to carefully read this entire prospectus, including the information provided under the heading (i) Risk Factors in this prospectus and in our Quarterly Report as well as in the other documents we file with the SEC, and (ii) Management s Discussion and Analysis of Financial Condition and Results of Operations, and our financial statements and the related notes, in our Quarterly Report, our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, or our Annual Report, as well as in the other periodic reports we file with the SEC.

Unless otherwise stated in this prospectus, references to Endologix, we, us, or our refer to Endologix, Inc. and its consolidated subsidiaries.

Overview

We develop, manufacture, market, and sell innovative medical devices for the treatment of aortic disorders. Our products are intended for the minimally invasive endovascular treatment of abdominal aortic aneurysms (AAA). Our AAA products are built on one of two platforms:

Traditional minimally-invasive endovascular aneurysm repair (EVAR); and

Endovascular aneurysm sealing (EVAS), our innovative solution for sealing the aneurysm sac while maintaining blood flow through two blood flow lumens.

Our current EVAR products include the AFX® Endovascular AAA System (the AFX System), the VE®Aroximal Endograft (VELA), and the OvationAbdominal Stent Graft System (the Ovation System). Our current EVAS product is the Nellix® Endovascular Aneurysm Sealing System (the Nellix EVAS System). We sell our EVAR platforms (including extensions and accessories) to hospitals in the United States, Canada, New Zealand, South Korea and Europe, and our EVAS platform to hospitals in New Zealand and Europe. We sell our EVAR and EVAS platforms (including extensions and accessories) to third-party international distributors and agents in Asia, Europe, South America and in other parts of the world. Such sales of our EVAR and EVAS platforms provide the sole source of our reported revenue.

Endologix[®], AFX[®], Duraply[®], VELA[®], IntuiTrak[®], ActiveSeal[®], Nellix[®], Ovation[®], Ovation Prime[®], Ovation Alto[®], and CustomSeal[®] are registered trademarks of Endologix, Inc. and its subsidiaries.

We have obtained CE Mark approval for the Nellix EVAS System in the European Union. The Nellix EVAS System is only approved as an investigational device in the United States. Ovation Alto, our next generation Ovation System device, is only approved as an investigational device and is not currently approved in any market.

Corporate Information

We were incorporated in California in March 1992 under the name Cardiovascular Dynamics, Inc. and reincorporated in Delaware in June 1993. In January 1999, we merged with Radiance Medical Systems, Inc. and changed our name to

Radiance Medical Systems, Inc., which was a privately-held corporation. In May 2002, we merged with Endologix, Inc., which was a privately held corporation, and changed our name to Endologix, Inc. Our main offices are located at 2 Musick, Irvine, California 92618, and our telephone number is (949) 595-7200. Additional information about Endologix, Inc. and our products is available through our website at www.endologix.com. The information contained on or accessed through our website is not incorporated by reference into this prospectus, and you should not consider information contained on our website to be a part of this prospectus or in deciding whether to purchase our securities. References in this prospectus to our website are to inactive textual references only.

THE OFFERING

Issuer: Endologix, Inc. Common Stock offered by us: A number of shares of common stock resulting in aggregate gross proceeds to us of up to \$50.0 million. Manner of offering: At the market offering that may be made from time to time by or through Stifel, acting as sales agent or principal. See Plan of Distribution on page S-19. We intend to use the net proceeds from this offering Use of proceeds: for working capital and other general corporate purposes. See Use of Proceeds on page S-8. Risk factors: Investing in our common stock involves a high degree of risk. You should review carefully the risks and uncertainties described under the heading Risk Factors beginning on page S-5 of this prospectus and page 33 of our Quarterly Report, as well as the risks and uncertainties described in the other documents we file with the SEC. NASDAQ Global Select Market symbol: **ELGX**

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RISK FACTORS

Investing in our common stock involves a high degree of risk. Before making an investment decision, you should carefully consider the risks and uncertainties described below, together with all of the other information included in this prospectus, and the information incorporated by reference herein, including the risks described under the heading Risk Factors beginning on page 33 of our Quarterly Report, as well as in the other documents we file with the SEC.

If any of the risks described below, or incorporated by reference into this prospectus, actually occur, our business, financial condition, results of operations and future prospects could suffer. In that case, the trading price of our common stock may decline and you may lose all or part of your investment. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business, financial condition results of operations and future prospects. Certain statements below are forward-looking statements. See the information included under the heading Special Note Regarding Forward-Looking Information.

Risks Related to this Offering

You may experience immediate and substantial dilution in the book value of your investment.

The offering price per share in this offering may exceed the pro forma net tangible book value per share of our common stock outstanding prior to this offering. Assuming that an aggregate of 8,865,248 shares of our common stock are sold at a price of \$5.64 per share, the last reported sale price of our common stock on the NASDAQ Global Select Market on May 30, 2018, for aggregate gross proceeds of \$50.0 million, and after deducting commissions and estimated aggregate offering expenses payable by us, you will experience immediate dilution of \$5.74 per share, representing the difference between our pro forma as adjusted net tangible book value per share as of March 31, 2018 after giving effect to this offering and the assumed offering price. The exercise of outstanding stock options or warrants could result in further dilution of your investment.

Management will have broad discretion to determine how to use the funds raised in this offering, and may use them in ways that may not enhance our operating results or the price of our common stock.

Our management will have broad discretion over the use of proceeds from this offering, and we could spend the proceeds from this offering in ways our stockholders may not agree with or that do not yield a favorable return. We intend to use the net proceeds of this offering for working capital and other general corporate purposes. However, our use of these proceeds may differ substantially from our current plans. If we do not invest or apply the proceeds of this offering in ways that improve our operating results, we may fail to achieve expected financial results, which could cause our stock price to decline.

You may experience future dilution as a result of future equity offerings.

In order to raise additional capital, we may in the future offer additional shares of our common stock or other securities convertible into or exchangeable for our common stock at prices that may not be the same as the price per share paid by investors in this offering. We may sell shares or other securities in any other offering at a price per share that is less than the price per share paid by any investors in this offering, and investors purchasing shares or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock, or securities convertible or exchangeable into common stock, in future transactions may be higher or lower than the price per share paid by any investors in this offering.

Future sales of substantial amounts of our common stock, or the possibility that such sales could occur, could adversely affect the market price of our common stock.

We may issue up to \$50.0 million of common stock from time to time in this offering. The issuance from time to time of shares in this offering, as well as the fact that we have the ability to issue such shares in this offering,

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could have the effect of depressing the market price or increasing the market price volatility of our common stock.

It is not possible to predict the actual number of shares we will sell under the Sales Agreement, or the gross proceeds resulting from those sales.

Subject to certain limitations in the Sales Agreement and compliance with applicable law, we have the discretion to deliver a placement notice to Stifel at any time throughout the term of the Sales Agreement. The number of shares that are sold through Stifel after delivering a placement notice will fluctuate based on a number of factors, including the market price of our common stock during the sales period, the limits we set with Stifel in any applicable placement notice, and the demand for our common stock during the sales period. Because the price per share of each share sold will fluctuate during this offering, it is not currently possible to predict the number of shares that will be sold or the gross proceeds to be raised in connection with those sales.

The common stock offered hereby will be sold in at the market offerings , and investors who buy shares at different times will likely pay different prices.

Investors who purchase shares in this offering at different times will likely pay different prices, and so may experience different levels of dilution and different outcomes in their investment results. We will have discretion, subject to market demand, to vary the timing, prices, and numbers of shares sold in this offering. In addition, subject to the final determination by our board of directors, there is no minimum or maximum sales price for shares to be sold in this offering. Investors may experience a decline in the value of the shares they purchase in this offering as a result of sales made at prices lower than the prices they paid.

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SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus contains forward-looking statements within the meaning of the federal securities laws, which statements are subject to considerable risks and uncertainties. These forward-looking statements are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. All statements included or incorporated by reference in this prospectus, other than statements of historical fact, are forward-looking statements. You can identify forward-looking statements by the use of words such as may, anticipate, expect, intend, believe, continue or the negative of such terms, or other comparable termine could, Forward-looking statements also include the assumptions underlying or relating to such statements. In particular, forward-looking statements contained in this prospectus relate to, among other things, our future or assumed financial condition, results of operations, liquidity, business forecasts and plans, research and product development plans, manufacturing plans, strategic plans and objectives, capital needs and financing plans, product launches, regulatory approvals, competitive environment, and the application of accounting guidance. We caution you that the foregoing list may not include all of the forward-looking statements made in this prospectus.

Our forward-looking statements are based on our management s current assumptions and expectations about future events and trends, which affect or may affect our business, strategy, operations or financial performance. Although we believe that these forward-looking statements are based upon reasonable assumptions, they are subject to numerous known and unknown risks and uncertainties and are made in light of information currently available to us. Our actual financial condition and results could differ materially from those anticipated in these forward-looking statements as a result of various factors, including those set forth in the section entitled Risk Factors beginning on page S-5 of this prospectus and page 33 of our Quarterly Report, as well as those described in the other documents we file with the SEC. You should read this prospectus, and the documents incorporated by reference herein, completely and with the understanding that our actual future results may be materially different from and worse than what we expect.

Moreover, we operate in an evolving environment. New risk factors and uncertainties emerge from time to time and it is not possible for our management to predict all risk factors and uncertainties, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.

Forward-looking statements speak only as of the date they were made, and, except to the extent required by law or the rules of the NASDAQ Stock Market, we undertake no obligation to update or review any forward-looking statement because of new information, future events or other factors. You should, however, review the risks and uncertainties we describe in the reports we will file from time to time with the SEC, after the date of this prospectus. See the information included under the heading Where You Can Find More Information.

We qualify all of our forward-looking statements by these cautionary statements.

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USE OF PROCEEDS

We may issue and sell our common stock having aggregate gross proceeds of up to \$50.0 million from time to time. Because there is no minimum offering amount required as a condition to close this offering, the actual total public offering amount, commissions and proceeds to us, if any, are not determinable at this time. We estimate that the net proceeds from the sale of our common stock that we are offering may be up to \$48.2 million, after deducting Stifel s commission and estimated offering expenses payable by us.

We currently anticipate that we will use the net proceeds received by us for working capital and other general corporate purposes. Our expected use of the net proceeds from this offering is based upon our present plans and business condition. As of the date of this prospectus supplement, we cannot predict with certainty all of the particular uses for the net proceeds to be received upon the completion of this offering or the amounts that we will actually spend on the uses set forth above. The amounts and timing of our actual use of proceeds will vary depending on numerous factors, including the factors described under the heading Risk Factors beginning on page S-5 of this prospectus and page 33 of our Quarterly Report, as well as the other documents we file with the SEC. As a result, management will retain broad discretion over the allocation of the net proceeds from this offering, and investors will be relying on the judgment of our management regarding the application of the net proceeds.

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DESCRIPTION OF COMMON STOCK

General

We may issue shares of our common stock from time to time. We are currently authorized to issue 135,000,000 shares of common stock, par value \$0.001 per share. Pursuant to a definitive proxy statement filed with the SEC on April 30, 2018, we have asked our stockholders to approve an amendment to our Charter to increase the total number of authorized shares of our common stock by 35,000,000 shares, from 135,000,000 shares to 170,000,000 shares, or the Charter Amendment Proposal. If our stockholders approve the Charter Amendment Proposal at our annual meeting of stockholders to be held on June 14, 2018, we will be authorized to issue 170,000,000 shares of 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 of our outstanding preferred stock.

As of March 31, 2018, there were 83,996,817 shares of our common stock outstanding, and there were no shares of our preferred stock outstanding.

Common Stock

Our common stock is publicly traded on the NASDAQ Global Select Market under the symbol ELGX. On May 30, 2018, the last reported sale price of our common stock on the NASDAQ Global Select Market was \$5.64.

The material terms of our common stock are described under the heading Description of Capital Stock in the accompanying prospectus.

Price Range of Common Stock

The following table sets forth, for the periods indicated, the high and low intraday sale prices of our common stock as reported by The NASDAQ Global Select Market.

	Price	Price Range	
	High	Low	
Year Ended December 31, 2018:			
First Quarter	\$ 5.44	\$ 3.75	
Second Quarter (through May 30, 2018)	\$ 5.80	\$ 4.02	
Year Ended December 31, 2017:			
First Quarter	\$ 7.44	\$ 5.45	
Second Quarter	\$ 7.66	\$ 4.21	
Third Quarter	\$ 5.37	\$ 4.08	
Fourth Quarter	\$ 6.50	\$ 4.50	
Year Ended December 31, 2016:			
First Quarter	\$ 10.04	\$ 6.51	
Second Quarter	\$ 13.60	\$ 8.13	
Third Quarter	\$ 14.50	\$11.33	
Fourth Quarter	\$ 13.25	\$ 4.78	

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Holders

As of April 30, 2018, there were approximately 244 holders of record of our common stock. The actual number of holders of our common stock is greater than the number of record holders, and includes stockholders who are beneficial owners, but whose shares are held in street name by banks, brokers, dealers and other nominees. This number of holders of record also does not include stockholders whose shares may be held in trust by other entities.

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DIVIDEND POLICY

We have never declared or paid any cash dividends on our common stock. We have no current plans to declare or pay any dividends and intend to retain all of our future earnings, if any, generated by our operations for the development and growth of our business. Any future decision to pay dividends will be made by our board of directors in its sole discretion and will depend upon our results of operations, financial condition, capital requirements and other factors that our board of directors deems relevant in its informed business judgment. In addition, the terms of our Facility Agreement with Deerfield Management Company, L.P. and its affiliates restrict our ability to pay cash dividends.

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DILUTION

If you invest in our common stock in this offering, your ownership interest will be immediately diluted to the extent of the difference between the public offering price per share and the as adjusted net tangible book value per share after this offering. As of March 31, 2018, our net tangible book value (deficit) was \$(57.1) million, or \$(0.68) per share. Net tangible book value (deficit) per share represents our total tangible assets less our total liabilities (excluding deferred revenue), divided by the number of shares outstanding.

After giving effect to the sale of our common stock in an amount equal to \$50.0 million at an assumed price of \$5.64 per share, the last reported sale price of our common stock on the NASDAQ Global Select Market on May 30, 2018, and after deducting commissions to Stifel and estimated offering expenses payable by us, our as adjusted net tangible book value as of March 31, 2018 would have been \$(8.92) million, or \$(0.10) per share.

This amount represents an immediate increase in net tangible book value of \$0.58 per share to our existing stockholders and immediate dilution in net tangible book value of \$5.74 per share to new investors purchasing shares in this offering. We determine dilution by subtracting the as adjusted net tangible book value per share after this offering from the price per share paid by an investor in this offering.

The following table illustrates this dilution.

Assumed public offering price per share	\$ 5.64
Net tangible book value (deficit) per share as of March 31, 2018	\$ (0.68)
Increase in net tangible book value per share attributable to this offering	0.58

As adjusted net tangible book value (deficit) per share after this offering

\$ (0.10)

Dilution per share to new investors in this offering

\$ 5.74

An increase of \$1.00 per share in the price at which the shares are sold from the assumed offering price of \$5.64 per share shown in the table above, assuming all of our common stock in the aggregate amount of \$50.0 million is sold at that price, would not increase our adjusted net tangible book value (deficit) per share after the offering, but would increase the dilution in net tangible book value per share to new investors in this offering to \$6.74 per share, after deducting commissions and estimated offering expenses payable by us. A decrease of \$1.00 per share in the price at which the shares are sold from the assumed offering price of \$5.64 per share shown in the table above, assuming all of our common stock in the aggregate amount of \$50.0 million is sold at that price, would increase our adjusted net tangible book value (deficit) per share after the offering to \$(0.09) per share, and would decrease the dilution in net tangible book value per share to new investors in this offering to \$4.73 per share, after deducting commissions and estimated aggregate offering expenses payable by us. This information is supplied for illustrative purposes only and may differ based on the actual offering price and the actual number of shares offered.

The above discussion and table are based on 83,996,817 shares of our common stock outstanding as of March 31, 2018, and excludes as of that date:

6,470,000 shares of common stock issuable upon exercise of warrants issued to Deerfield Private Design Fund IV, L.P., Deerfield International Master Fund, L.P., Deerfield Private Design Fund

III, L.P., at a weighted average exercise price of \$9.23 per share;

Up to 3,333,333 shares that we may be required to issue to the former stockholders of Nellix, Inc., a privately-held medical device company, or Nellix, as contingent consideration pursuant to the terms of the merger agreement with Nellix and the other parties thereto;

35,094 warrants assumed in connection with the merger with TriVascular Technologies, Inc.;

15,260,731 shares initially issuable in connection with conversion of our outstanding convertible senior notes;

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4,070,715 shares of common stock issuable upon exercise of outstanding options, at a weighted average exercise price of \$9.43 per share, and 388,404 shares of common stock issuable upon the settlement of restricted stock units under the 2006 Stock Incentive Plan;

199,771 shares of common stock issuable upon exercise of outstanding options to purchase shares of common stock under the Amended and Restated 2006 Employee Stock Purchase Plan, and 791,144 shares that are reserved for future grant or issuance under the plan;

7,034,393 shares of common stock issuable upon exercise of outstanding options, at a weighted average exercise price of \$6.40 per share, and 1,588,301 shares of common stock issuable upon the settlement of restricted stock units under the 2015 Stock Incentive Plan, and 1,044,393 shares that are reserved for future grant or issuance under the plan; and

349,278 shares of common stock issuable upon exercise of outstanding options, at a weighted average exercise price of \$4.86 per share, and 102,687 shares of common stock issuable upon the settlement of restricted stock units under the 2017 Inducement Stock Incentive Plan, and 1,486,423 shares that are reserved for future grant or issuance under the plan.

Our option holders and warrant holders may exercise the above-referenced options and warrants in the future or we may make future grants under the above-referenced plans. In addition, we may choose to raise additional capital through the sale of equity or convertible debt securities due to market conditions or strategic considerations, even if we believe we have sufficient funds for our current or future operating plans. To the extent that any of these options or warrants are exercised, new options or shares of common stock are issued under the above-referenced plans, or we issue additional shares of common stock or other equity securities in the future, there will be further dilution to investors purchasing in this offering.

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CERTAIN U.S. FEDERAL TAX CONSIDERATIONS APPLICABLE TO HOLDERS OF COMMON STOCK

The following is a description of certain U.S. federal income and estate tax considerations related to the purchase, ownership and disposition of our common stock that are applicable to U.S. and non-U.S. holders (defined below).

This summary:

is based on the U.S. Internal Revenue Code of 1986, as amended, or the Code, U.S. federal tax regulations promulgated or proposed under it, or Treasury Regulations, judicial authority and published rulings and administrative pronouncements of the U.S. Internal Revenue Service, or IRS, each as of the date of this prospectus and each of which are subject to change at any time, possibly with retroactive effect;

is applicable only to holders who hold the shares as capital assets within the meaning of section 1221 of the Code;

does not discuss the applicability of any U.S. state or local taxes, non-U.S. taxes or any other U.S. federal tax except for U.S. federal income tax; and

does not address all aspects of U.S. federal income taxation that may be relevant to holders in light of their particular circumstances including alternative minimum tax considerations or who are subject to special treatment under U.S. federal income tax laws, including but not limited to:

certain former citizens and long-term residents of the United States;

banks, financial institutions, or financial services entities;

insurance companies;

tax-exempt organizations;

tax-qualified retirement and pension plans;

brokers, dealers or traders in securities, commodities or currencies;

persons subject to the alternative minimum tax;

persons that own or have owned more than 5% of our common stock;

persons who hold or receive our common stock pursuant to the exercise of any employee stock option or otherwise as compensation;

investors holding our common stock as part of a straddle, hedge, conversion transaction, or other risk-reduction transaction;

investors who are an integral parts or controlled entities of a foreign sovereign, partnerships or other pass-through entities;

real estate investment trusts and regulated investment companies; and

controlled foreign corporations and passive foreign investment companies.

This description constitutes neither tax nor legal advice. Prospective investors are urged to consult their own tax advisors to determine the specific tax consequences and risks to them of purchasing, holding and disposing of our common stock, including the application to their particular situations of any U.S. federal, state, local and non-U.S. tax laws and of any applicable income tax treaty.

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Certain U.S. Federal Income Tax Considerations Applicable to U.S. Holders

U.S. Holder Defined

For purposes of this discussion, a U.S. holder is a beneficial owner of our common stock that is a U.S. person for U.S. federal income tax purposes. A U.S. person is any of the following:

a citizen or resident of the United States for U.S. federal income tax purposes;

a corporation, or other entity taxable as a corporation for U.S. federal income tax purposes, that was created or organized in or under the laws of the United States or any state thereof or the District of Columbia;

an estate the income of which is subject to U.S. federal income tax regardless of its source; or

a trust if (a) a court within the United States is able to exercise primary supervision over its administration and one or more U.S. persons have the authority to control all substantial decisions of the trust, or (b) the trust has a valid election in effect to be treated as a U.S. person.

If a partnership (or an entity or arrangement treated as a partnership for U.S. federal income tax purposes) owns our common stock, then the U.S. federal income tax treatment of a partner in that partnership, including a partner that is a U.S. person, generally will depend on the status of the partner and the partnership s activities. Partners and partnerships should consult their own tax advisors with regard to the U.S. federal income tax treatment of an investment in our common stock.

Distributions to U.S. Holders

Distributions of cash or property, if any, paid to a U.S. holder of our common stock will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. Distributions made on our common stock that are treated as dividends generally will be included in your income as ordinary dividend income. With respect to noncorporate taxpayers, such dividends are generally taxed at reduced rates provided certain holding period requirements are satisfied.

Amounts not treated as dividends for U.S. federal income tax purposes will constitute a return of capital and first be applied against and reduce a holder s adjusted tax basis in its common stock, but not below zero. Any excess will be treated as capital gain and will be treated as described under the section titled Sale or Taxable Disposition of Common Stock by U.S. Holders below.

Sale or Taxable Disposition of Common Stock by U.S. Holders

Upon the sale, exchange or disposition of our common stock, you generally will recognize capital gain or loss equal to the difference between (i) the amount of cash and the fair market value of any property received upon the sale or exchange and (ii) your adjusted tax basis in the common stock. Such capital gain or loss will be long-term capital gain or loss if your holding period in the common stock is more than one year at the time of the sale, exchange or disposition. Long-term capital gains recognized by certain noncorporate taxpayers will generally be subject to reduced

rates of U.S. federal income tax. The deductibility of capital losses is subject to limitations.

Medicare Contributions Tax

Certain U.S. holders who are individuals, estates or certain trusts must pay a 3.8% tax on the U.S. person s net investment income. Net investment income generally includes, among other things, dividend income and net gains from the disposition of our common stock. A U.S. holder that is an individual, estate or trust should consult its tax advisor regarding the applicability of the Medicare tax to its income and gains in respect of its investment in our common stock.

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Certain U.S. Federal Income Tax Considerations Applicable to Non-U.S. Holders

Non-U.S. Holder Defined

For purposes of this discussion, a non-U.S. holder is a beneficial owner of our common stock that is not a U.S. holder (as defined under the section titled U.S. Holder Defined above).

If a partnership (or an entity or arrangement treated as a partnership for U.S. federal income tax purposes) owns our common stock, then the U.S. federal income tax treatment of a partner, including a partner that is a non-U.S. person, in that partnership generally will depend on the status of the partner and the partnership s activities. Partners and partnerships should consult their own tax advisors with regard to the U.S. federal income tax treatment of an investment in our common stock.

Distributions to Non-U.S. Holders

Distributions of cash or property, if any, paid to a non-U.S. holder of our common stock will constitute dividends for U.S. federal income tax purposes to the extent paid out of our current or accumulated earnings and profits, as determined for U.S. federal income tax purposes. If the amount of a distribution exceeds both our current and accumulated earnings and profits, such excess will first constitute a nontaxable return of capital, which will reduce the holder s tax basis in our common stock, but not below zero. Any excess will be treated as gain from the sale of our common stock and will be treated as described under the section titled Sale or Taxable Disposition of Common Stock by Non-U.S. Holders below.

Subject to the following paragraphs, dividends on our common stock generally will be subject to U.S. federal withholding tax at a 30% gross rate, subject to any exemption or lower rate as may be specified by an applicable income tax treaty. We may withhold up to 30% of either (i) the gross amount of the entire distribution, even if the amount of the distribution is greater than the amount constituting a dividend, as described above, or (ii) the amount of the distribution we project will be a dividend, based upon a reasonable estimate of both our current and our accumulated earnings and profits for the taxable year in which the distribution is made. If tax is withheld on the amount of a distribution in excess of the amount constituting a dividend, then you may obtain a refund of that excess amount by timely filing a claim for refund with the IRS. Any such distributions will also be subject to the discussion below under the section titled Foreign Account Tax Compliance Act Considerations.

To claim the benefit of a reduced rate of or an exemption from U.S. federal withholding tax under an applicable income tax treaty, a non-U.S. holder will be required (i) to satisfy certain certification requirements, which may be made by providing us or our agent with a properly executed and completed IRS Form W-8BEN (for individuals) or W-8BEN-E (for entities) certifying, under penalty of perjury, that the holder qualifies for treaty benefits and is not a U.S. person or (ii) if our common stock is held through certain non-U.S. intermediaries, to satisfy the relevant certification requirements of the applicable Treasury Regulations. Special certification and other requirements apply to certain non-U.S. holders that are pass-through entities. Non-U.S. holders that do not timely provide us or our paying agent with the required certification, but that qualify for a reduced treaty rate, may obtain a refund of any excess amounts withheld by timely filing an appropriate claim for refund with the IRS. Non-U.S. holders should consult their tax advisors regarding their entitlement to benefits under an applicable income tax treaty.

Dividends that are effectively connected with the conduct of a trade or business by the non-U.S. holder within the United States (and, if required by an applicable income tax treaty, are attributable to a permanent establishment, or a fixed base in the case of an individual non-U.S. holder, that is maintained by the non-U.S. holder in the United States) (effectively connected dividends) are not subject to the U.S. federal withholding tax, provided that the non-U.S. holder

certifies, under penalty of perjury, that the dividends paid to such holder are effectively connected dividends on a properly executed and completed IRS Form W-8ECI (or other applicable form). Instead, any such dividends will be subject to U.S. federal income tax on a net income basis in a manner similar to that which would apply if the non-U.S. holder were a U.S. person.

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Corporate non-U.S. holders who receive effectively connected dividends may also be subject to an additional branch profits tax at a gross rate of 30% on their earnings and profits for the taxable year that are effectively connected with the holder s conduct of a trade or business within the United States, subject to any exemption or reduction provided by an applicable income tax treaty.

Sale or Taxable Disposition of Common Stock by Non-U.S. Holders

Any gain realized on the sale, exchange or other taxable disposition of our common stock generally will not be subject to U.S. federal income tax unless:

the gain is effectively connected with the conduct of a trade or business by the non-U.S. holder within the United States (and, if required by an applicable income tax treaty, is attributable to a permanent establishment, or fixed base in the case of an individual non-U.S. holder, that is maintained by the non-U.S. holder in the United States);

the non-U.S. holder is an individual who is present in the United States for 183 days or more in the taxable year of that disposition, and certain other conditions are met; or

we are or have been a United States real property holding corporation for U.S. federal income tax purposes at any time during the shorter of the five-year period ending on the date of such disposition and the non-U.S. holder s holding period in our common stock.

A non-U.S. holder described in the first or second bullet point above generally will be subject to U.S. federal income tax on the net gain derived from the sale or disposition under regular graduated U.S. federal income tax rates as if the holder were a U.S. person. If the non-U.S. holder is a corporation, then the gain may also, under certain circumstances, be subject to the branch profits tax, which was discussed above.

With respect to the third bullet point, although there can be no assurance, we believe we are not, have not been and will not become a United States real property holding corporation for U.S. federal income tax purposes. In the event that we are or become a United States real property holding corporation at any time during the applicable period described in the third bullet point above, any gain recognized on a sale or other taxable disposition of our common stock may be subject to U.S. federal income tax, including any applicable withholding tax, if (i) the non-U.S. holder beneficially owns, or has owned, more than 5% of our common stock at any time during the applicable period, or (ii) our common stock ceases to be regularly traded on an established securities market within the meaning of the Code. Non-U.S. holders who intend to acquire more than 5% of our common stock are encouraged to consult their tax advisors with respect to the U.S. tax consequences of a disposition of our common stock.

Any proceeds from the disposition of our common stock will also be subject to the discussion below under the section titled Foreign Account Tax Compliance Act Considerations.

Federal Estate Tax

Common stock owned or treated as owned by an individual who is a non-U.S. holder at the time of his or her death generally will be included in the individual s gross estate for U.S. federal estate tax purposes and may be subject to U.S. federal estate tax unless an applicable estate tax treaty provides otherwise.

Information Reporting and Backup Withholding

Information returns will be filed with the IRS in connection with payments of dividends on our common stock and the proceeds from a sale or other disposition of our common stock. Copies of information returns may be made available to the tax authorities of the country in which a non-U.S. holder resides or is incorporated under the provisions of a specific treaty or agreement.

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You may be subject to backup withholding with respect to dividends paid on our common stock or with respect to proceeds received from a disposition of the shares of our common stock. Certain holders (including, among others, corporations and certain tax-exempt organizations) are generally not subject to backup withholding. You will be subject to backup withholding if you are not otherwise exempt and you

fail to furnish your taxpayer identification number, or TIN, which, for an individual, is ordinarily his or her social security number;

furnish an incorrect TIN;

are notified by the IRS that you have failed to properly report payments of interest or dividends; or

fail to certify, under penalties of perjury, that you have furnished a correct TIN and that the IRS has not notified you that you are subject to backup withholding.

Backup withholding is not an additional tax, but rather is a method of tax collection. You generally will be entitled to credit any amounts withheld under the backup withholding rules against your U.S. federal income tax liability provided that the required information is furnished to the IRS in a timely manner.

A non-U.S. holder may have to comply with certification procedures to establish that it is not a U.S. person in order to avoid information reporting and backup withholding tax requirements. The certification procedures required to claim a reduced rate of withholding under an income tax treaty will satisfy the certification requirements necessary to avoid backup withholding as well. The amount of any backup withholding from a payment to a non-U.S. holder may be allowed as a credit against such holder s U.S. federal income tax liability and may entitle such non-U.S. holder to a refund, provided that the required information is timely furnished to the IRS.

Foreign Account Tax Compliance Act Considerations

The Foreign Account Tax Compliance Act, or FATCA, generally imposes a U.S. federal withholding tax at a rate of 30% on payments of dividends on, and gross proceeds from the sale or other disposition of, our common stock if paid to a foreign entity unless (i) if the foreign entity is a foreign financial institution, the foreign entity must enter into an agreement with the IRS or, in the case of a foreign financial institution in a jurisdiction that has entered into an intergovernmental agreement with the United States, comply with the requirements of such agreement and undertake certain due diligence, reporting, withholding, and certain certification obligations, (ii) if the foreign entity is not a foreign financial institution, the foreign entity identifies certain of its U.S. investors, if any, or (iii) the foreign entity is otherwise exempt under FATCA.

Under applicable U.S. Treasury Regulations, withholding under FATCA applies to payments of dividends on our common stock and to payments of gross proceeds from a sale or other disposition of our common stock made after December 31, 2016. Under certain circumstances, a non-U.S. holder may be eligible for refunds or credits of the tax. An intergovernmental agreement between the United States and an applicable foreign country may modify the requirements described in this section. Non-U.S. holders should consult their own tax advisors regarding the possible implications of these rules on their investment in our common stock and the entities through which they hold our common stock, including, without limitation, the process and deadlines for meeting the applicable requirements to

prevent the imposition of the 30% withholding tax under FATCA.

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PLAN OF DISTRIBUTION

We have entered into a Sales Agreement with Stifel as our sales agent, which we have filed as an exhibit to the registration statement of which this prospectus forms a part. The Sales Agreement is incorporated by reference in this prospectus. Sales of our common stock, if any, may be made in sales deemed to be at the market offerings as defined in Rule 415 of the Securities Act. Stifel will use commercially reasonable efforts to sell on our behalf all of our common stock requested to be sold by us, consistent with its normal trading and sales practices, under the terms and subject to the conditions set forth in the Sales Agreement. We may instruct Stifel not to sell our common stock if the sales cannot be effected at or above the price designated by us in any instruction or placement notice we deliver to Stifel. We or Stifel may suspend the offering of our common stock upon delivering notice and subject to other conditions, as further described in the Sales Agreement.

Stifel will provide written confirmation to us following the close of trading on the NASDAQ Global Select Market each day in which our shares are sold under the Sales Agreement. Each such confirmation will include the number of shares of common stock sold on such day, the net proceeds to us, the compensation payable by us to Stifel in connection with the sales of such common stock, and the additional expenses deducted from the net proceeds payable to us.

We will pay Stifel commissions for its services in acting as agent and/or principal in the sale of our common stock. Stifel will be entitled to compensation at a fixed commission rate of up to 3.0% of the gross sales price of all of our common stock sold through it as sales agent under the Sales Agreement. We estimate that the total expenses for the offering, excluding compensation payable to Stifel under the terms of the Sales Agreement, will be approximately \$250,000, which includes the reimbursement to Stifel for the reasonable out-of-pocket fees and disbursements of its legal counsel, in an amount not to exceed \$50,000.

Settlement for sales of our common stock will occur on the second business day following the date on which any sales are made, or on such other date as is agreed upon by us and Stifel in connection with a particular transaction, in return for payment of the net proceeds to us. Settlement for all shares of our common stock shall be effected by book-entry delivery of the shares of our common stock to Stifel s account at The Depository Trust Company against payments by Stifel of the net proceeds from the sale of such shares of our common stock in same day funds delivered to an account designated by us.

We will report at least quarterly the number of shares of common stock sold through Stifel, as sales agent, under the Sales Agreement, the net proceeds to us and the compensation paid by us to Stifel in connection with the sales of our common stock.

Stifel and its affiliates have provided, and may in the future provide, various investment banking, commercial banking, fiduciary and advisory services for us from time to time for which they have received, and may in the future receive, customary fees and expenses. Stifel and its affiliates may, from time to time, engage in other transactions with and perform services for us in the ordinary course of their business.

In connection with the sale of our common stock on our behalf, Stifel will be deemed to be an underwriter within the meaning of the Securities Act, and the compensation of Stifel will be deemed to be underwriting commissions or discounts. We have agreed to indemnify Stifel against specified liabilities, including liabilities under the Securities Act, or to contribute to payments that Stifel may be required to make because of those liabilities.

The offering of shares of our common stock pursuant to the Sales Agreement will terminate upon the earlier of (1) the sale of all shares subject to the Sales Agreement or (2) termination of the Sales Agreement. The Sales Agreement may

be terminated by Stifel or us at any time as further described in the Sales Agreement.

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LEGAL MATTERS

Certain legal matters relating to this offering will be passed upon for us by Stradling Yocca Carlson & Rauth, P.C., Newport Beach, California. Certain legal matters relating to this offering will be passed upon for the sales agent by Duane Morris LLP, New York, New York.

EXPERTS

The consolidated financial statements and schedule of Endologix, Inc. as of December 31, 2017 and 2016 and for each of the years in the three-year period ended December 31, 2017, and management s assessment of the effectiveness of internal control over financial reporting as of December 31, 2017, have been incorporated by reference herein in reliance upon the reports of KPMG LLP, independent registered public accounting firm, incorporated by reference herein, and upon the authority of said firm as experts in accounting and auditing.

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INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to incorporate into this prospectus information that we file with the SEC in other documents. This means that we can disclose important information to you by referring to other documents that contain that information. Any information that we incorporate by reference into this prospectus is considered part of this prospectus.

Information contained in this prospectus, and information that we file with the SEC in the future and incorporate by reference in this prospectus automatically modifies and supersedes previously filed information, including information in previously filed documents or reports that have been incorporated by reference in this prospectus, to the extent the new information differs from or is inconsistent with the old information. Any statement so modified will be deemed to constitute a part of this prospectus only as so modified, and any statement so superseded will be deemed not to constitute a part of this prospectus. For more information, see About this Prospectus.

We incorporate by reference, as of their respective dates of filing, the documents listed below that we have filed with the SEC and any documents that we file with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, between the date of this prospectus supplement and the date on which the offering of the securities covered by this prospectus has been completed, other than, in each case, documents or information deemed to have been furnished and not filed in accordance with SEC rules:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, as filed with the SEC on March 13, 2018;

our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2017, or the Quarterly Report, filed with the SEC on May 9, 2018;

the information specifically incorporated by reference into the Annual Report from our Definitive Proxy Statement on Schedule 14A (Revised), filed with the SEC on April 30, 2018;

our Current Reports on Form 8-K as filed with the SEC on each of January 8, 2018, January 31, 2018, February 21, 2018 and May 2, 2018; and

the description of our common stock contained in our registration statement on Form 8-A, filed with the SEC on June 18, 1996, including any amendment or report filed for the purpose of updating such description. These filings have not been included in or delivered with this prospectus. We will provide to each person, including any beneficial owner to whom this prospectus is delivered, a copy of any document that is incorporated by reference in this prospectus. You may obtain a copy of these documents, at no cost, from our website (www.endologix.com) or by contacting us using the following information:

Endologix, Inc.

2 Musick

Irvine, California 92618

Attention: Investor Relations

(949) 595-7200

Exhibits to the filings will not be sent, however, unless those exhibits have specifically been incorporated by reference in this prospectus.

You should rely only on the information contained in this prospectus, in any document incorporated by reference herein, or in any free writing prospectuses we may provide to you in connection with this offering. Neither we nor Stifel has authorized anyone to provide you with any different information. We take no

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responsibility for, and can provide no assurance as to the reliability of, any other information that others may provide to you.

The information contained in this prospectus, and in the documents incorporated by reference herein, is accurate only as of the date such information is presented. Our business, financial condition, results of operations and future prospects may have changed since those respective dates.

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WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports 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. You may obtain information on the operation of the public reference room by calling the SEC at 1-800-SEC-0330. Our filings with the SEC also are available from the SEC s website at www.sec.gov, which contains reports, proxy and information statements, and other information regarding issuers that file electronically.

This prospectus is part of a registration statement that we filed with the SEC. As permitted by SEC rules, this prospectus forms a part of the registration statement, but does not contain all of the information that is included in the registration statement. The registration statement contains more information regarding us and our securities, including certain exhibits. You can obtain a copy of the registration statement from the SEC at the address listed above or from the SEC s website.

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Up to \$50,000,000

ENDOLOGIX, INC

Common Stock

PROSPECTUS SUPPLEMENT

, 2018

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION.

The following table sets forth an itemization of the various costs and expenses, other than underwriting discounts and commissions, payable by us in connection with the issuance and distribution of the securities being registered hereunder. All of the amounts shown are estimated except for the SEC registration fee.

SEC registration fee	\$ 12,45	50
FINRA filing fees	\$ 15,50	00
Legal fees and expenses	\$	*
Accounting fees and expenses	\$	*
Printing fees and expenses	\$	*
Transfer agent and registrar fees and expenses	\$	*
Miscellaneous	\$	*
Total expenses	\$	*

ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

We are incorporated under the laws of the State of Delaware. Section 145 of the DGCL provides that a Delaware corporation may indemnify any persons who are, or are threatened to be made, parties to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of such corporation), by reason of the fact that such person was an officer, director, employee or agent of such corporation, or is or was serving at the request of such corporation as an officer, director, employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding, provided that such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the corporation s best interests and, with respect to any criminal action or proceeding, had no reasonable cause to believe that his or her conduct was illegal. Section 145 of the DGCL further authorizes a corporation to purchase and maintain insurance on behalf of any indemnified person against any liability asserted against and incurred by such person in any indemnified capacity, or arising out of such person s status as such, regardless of whether the corporation would otherwise have the power to indemnify such person under the DGCL.

Section 102(b)(7) of the DGCL permits a corporation to provide in its certificate of incorporation that a director of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duties as a director, except for liability for any:

^{*} These fees and expenses depend on the securities offered and the number of issuances, and accordingly cannot be estimated at this time.

breach of a director s duty of loyalty to the corporation or its stockholders;

act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;

unlawful payment of dividends or redemption of shares; or

transaction from which the director derives an improper personal benefit.

Our Charter authorizes us to, and our Bylaws provide that we must, indemnify our directors and officers to the fullest extent authorized by the DGCL and also pay expenses incurred in defending any such proceeding in

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advance of its final disposition upon delivery of an undertaking, by or on behalf of an indemnified person, to repay all amounts so advanced if it should be determined ultimately that such person is not entitled to be indemnified under this section or otherwise.

As permitted by the DGCL, we have entered into indemnification agreements with each of our directors and certain of our officers. These agreements require us to indemnify these individuals to the fullest extent permitted under Delaware law against liabilities that may arise by reason of their service to us, and to advance expenses incurred as a result of any proceeding against them as to which they could be indemnified.

We have an insurance policy covering our officers and directors with respect to certain liabilities, including liabilities arising under the Securities Act or otherwise.

Any underwriting agreement or similar agreement that we enter into in connection with an offer of securities pursuant to this registration statement may provide for indemnification by any underwriters of us, our directors, our officers who sign the registration statement and our controlling persons for some liabilities, including liabilities arising under the Securities Act.

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ITEM 16. EXHIBITS.

Exhibit No.	Description
1.1	Form of Underwriting Agreement*
1.2	At-The-Market Equity Offering Sales Agreement
3.1	Amended and Restated Certificate of Incorporation, as amended (incorporated by reference to Exhibit 3.1 to our Quarterly Report on Form 10-Q, filed on August 5, 2016).
3.2	Amended and Restated Bylaws, as amended (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K, filed with the SEC on December 14, 2010).
4.1	Specimen Certificate of Common Stock (incorporated by reference to Exhibit 4.1 to Amendment No. 2 to our Registration Statement on Form S-1 (File No. 333-04560), filed with the SEC on June 10, 1996).
4.2	<u>Updated Specimen Certificate of Common Stock (incorporated by reference to Exhibit 4.1.1 to our Annual Report on Form 10-K, filed with the SEC on March 2, 2015).</u>
4.3	Form of Certificate of Designation of Preferred Stock*
4.4	Form of Warrant Agreement (including form of warrant)*
4.5	Form of Unit Agreement (including form of unit)*
5.1	Legal Opinion of Stradling Yocca Carlson & Rauth, P.C to Shelf Registration Statement
5.2	Supplemental Legal Opinion of Stradling Yocca Carlson & Rauth, P.C. to Shelf Registration Statement
23.1	Consent of KPMG LLP, independent registered public accounting firm.
23.2	Consent of Stradling Yocca Carlson & Rauth, P.C. (included in Exhibit 5.1).
24.1	Power of Attorney (included on the signature page of this registration statement).

^{*} To be filed by amendment to this registration statement, or as an exhibit to a document to be incorporated by reference into this registration statement, in each case in connection with a particular offering of the securities.

ITEM 17. UNDERTAKINGS.

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;
 - (ii) 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 set forth in this registration statement. Notwithstanding the foregoing, any increase or decrease in the 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 SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement; and
- (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; provided, however, that paragraphs (i), (ii) and (iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.
- (2) That, for the purpose of determining any liability under the Securities 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.
- (4) That, for the purpose of determining liability under the Securities Act to any purchaser:
 - (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii)

Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which the prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. 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 part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, 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 effective date.

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- (5) That, for the purpose of determining liability of the registrant under the Securities 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 the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
 - (ii) Any free writing prospectus relating to the 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 the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (iv) Any other communication that is an offer in the offering made by an undersigned registrant to the purchaser. (6) That, for purposes of determining any liability under the Securities Act, each filing of the registrant s annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan s annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement 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.
- (7) Insofar as indemnification for liabilities arising under the Securities 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 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 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 Securities 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, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Irvine, State of California, on May 31, 2018.

ENDOLOGIX, INC.

By: /s/ John Onopchenko Name: John Onopchenko Title: Chief Executive Officer

KNOW ALL PERSONS BY THESE PRESENTS that each individual whose signature appears below constitutes and appoints John Onopchenko and Vaseem Mahboob, and each of them, his or her true and lawful attorneys-in-fact and agents with full power of substitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments, including post-effective amendments, to this registration statement, and to sign any registration statement for the same offering covered by this registration statement that is to be effective upon filing pursuant to Rule 462(b) promulgated under the Securities Act, and all post-effective amendments thereto, and to file the same, with all exhibits thereto and all documents in connection therewith, making such changes in this registration statement as such attorneys-in-fact and agents so acting deem appropriate, with the SEC, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to the offering of securities contemplated by this registration statement, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his, her or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ John Onopchenko (John Onopchenko)	Chief Executive Officer	May 31, 2018
(John Ghopenenko)	(Principal Executive Officer)	
/s/ Vaseem Mahboob (Vaseem Mahboob)	Chief Financial Officer	May 31, 2018
(v asceni Manooo)	(Principal Financial and Accounting Officer)	
/s/ Daniel Lemaitre (Dan Lemaitre)	Chairman of the Board	May 31, 2018
/s/ Thomas F. Zenty III (Thomas F. Zenty III)	Director	May 31, 2018

/s/ Thomas C. Wilder (Thomas C. Wilder)	Director	May 31, 2018
/s/ Guido J. Neels (Guido J. Neels)	Director	May 31, 2018
/s/ Gregory D. Waller (Gregory D. Waller)	Director	May 31, 2018

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Signature	Title	Date
/s/ Leslie V. Norwalk (Leslie V. Norwalk)	Director	May 31, 2018
/s/ Christopher G. Chavez (Christopher G. Chavez)	Director	May 31, 2018
/s/ John McDermott (John McDermott)	Director	May 31, 2018