ROPER TECHNOLOGIES INC

Form 10-K

February 25, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

b ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

	TRANSITION REPORT PURSUANT TO	SECTION 13 OR 15((d) OF THE SECURIT	ES EXCHANGE ACT OF
19	934			

For the transition period from ____ to ____

Commission File Number 1-12273

ROPER TECHNOLOGIES, INC.

(Exact name of Registrant as specified in its charter)

Delaware 51-0263969

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)

6901 Professional Parkway East, Suite 200

Sarasota, Florida 34240

(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (941) 556-2601

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Title of Each Class

Name of Each Exchange On Which

Registered

Common Stock, \$0.01 Par Value New York Stock Exchange

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. b Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes b No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. b Yes No Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T

(§223.405) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). b Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company (as defined in Rule 12b-2 of the Exchange Act). b Large accelerated filer Accelerated filer 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 13(a) of the Exchange Act.

Indicate by check mark if the registrant is a shell company (as defined in Rule 12-b2 of the Act). Yes þ No Based on the closing sale price on the New York Stock Exchange on June 29, 2018, the aggregate market value of the voting and non-voting common stock held by non-affiliates of the registrant was: \$27,931,518,465.

Number of shares of registrant's Common Stock outstanding as of February 15, 2019: 103,607,782.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement to be furnished to Stockholders in connection with its Annual Meeting of Stockholders are incorporated by reference into Part III of this Annual Report on Form 10-K.

ROPER TECHNOLOGIES, INC.

FORM 10-K FOR THE FISCAL YEAR ENDED DECEMBER 31, 2018

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Information About Forward-Looking Statements

This Annual Report on Form 10-K ("Annual Report") includes and incorporates by reference "forward-looking statements" within the meaning of the federal securities laws. In addition, we, or our executive officers on our behalf, may from time to time make forward-looking statements in reports and other documents we file with the U.S. Securities and Exchange Commission ("SEC") or in connection with oral statements made to the press, potential investors or others. All statements that are not historical facts are "forward-looking statements." Forward-looking statements may be indicated by words or phrases such as "anticipate," "estimate," "plans," "expects," "projects," "should," "with "believes" or "intends" and similar words and phrases. These statements reflect management's current beliefs and are not guarantees of future performance. They involve risks and uncertainties that could cause actual results to differ materially from those expressed or implied in any forward-looking statement.

Examples of forward-looking statements in this report include but are not limited to statements regarding operating results, the success of our operating plans, our expectations regarding our ability to generate cash and reduce debt and associated interest expense, profit and cash flow expectations, the prospects for newly acquired businesses to be integrated and contribute to future growth and our expectations regarding growth through acquisitions. Important assumptions relating to the forward-looking statements include, among others, demand for our products, the cost, timing and success of product upgrades and new product introductions, raw material costs, expected pricing levels, expected outcomes of pending litigation, competitive conditions and general economic conditions. These assumptions could prove inaccurate. Although we believe that the estimates and projections reflected in the forward-looking statements are reasonable, our expectations may prove to be incorrect. Important factors that could cause actual results to differ materially from estimates or projections contained in the forward-looking statements include, but are not limited to:

general economic conditions;

difficulty making acquisitions and successfully integrating acquired businesses;

any unforeseen liabilities associated with future acquisitions;

4imitations on our business imposed by our indebtedness;

unfavorable changes in foreign exchange rates;

failure to effectively mitigate cybersecurity threats;

difficulties associated with exports;

risks and costs associated with our international sales and operations;

rising interest rates;

product liability and insurance risks;

increased warranty exposure;

future competition;

the cyclical nature of some of our markets;

reduction of business with large customers;

risks associated with government contracts;

changes in the supply of, or price for, raw materials, parts and components;

environmental compliance costs and liabilities;

risks and costs associated with asbestos-related litigation;

potential write-offs of our goodwill and other intangible assets;

our ability to successfully develop new products;

failure to protect our intellectual property;

the effect of, or change in, government regulations (including tax);

economic disruption caused by terrorist attacks, health crises or other unforeseen events; and

the factors discussed in Item 1A to this Annual Report under the heading "Risk Factors."

We believe these forward-looking statements are reasonable. However, you should not place undue reliance on any forward-looking statements, which are based on current expectations. Further, forward-looking statements speak only as of the date they are made, and we undertake no obligation to publicly update any of them in light of new information or future events.

PART I

ITEM 1. BUSINESS

All currency amounts are in millions unless specified

Our Business

Roper Technologies, Inc. ("Roper," the "Company," "we," "our" or "us") is a diversified technology company. We operate businesses that design and develop software (both license and software-as-a-service) and engineered products and solutions for a variety of niche end markets.

We pursue consistent and sustainable growth in earnings and cash flow by emphasizing continuous improvement in the operating performance of our existing businesses and by acquiring other businesses that offer high value-added software, services, engineered products and solutions that we believe are capable of achieving growth and maintaining high margins. We compete in many niche markets and believe we are the market leader or a competitive alternative to the market leader in most of these markets.

We were incorporated on December 17, 1981 under the laws of the State of Delaware.

Market Share, Market Expansion, and Product Development

Leadership with Engineered Content for Niche Markets - We maintain a leading position in many of our markets. We believe our market positions are attributable to the technical sophistication of our products and software, the applications expertise used to create our advanced products and systems, and our distribution and service capabilities. Our operating units grow their businesses through new product development and development of new applications and services to satisfy customer needs. In addition, our operating units grow our customer base by expanding our access to customers and entering adjacent markets.

Diversified End Markets and Geographic Reach - We have a global presence, with sales to customers outside the U.S. totaling \$1.5 billion in 2018. Information regarding our international operations is set forth in Note 13 of the Notes to Consolidated Financial Statements included in this Annual Report.

Research and Development - We conduct applied research and development to improve the quality and performance of our products and to develop new technologies and products. Our research and development spending was \$317 in 2018 as compared to \$281 and \$195 in 2017 and 2016, respectively.

Our Business Segments

Our operations are reported in four segments based upon common customers, markets, sales channels, technologies and common cost opportunities. The segments are: RF Technology, Medical & Scientific Imaging, Industrial Technology and Energy Systems & Controls. Financial information about our business segments is presented in Note 13 of the Notes to Consolidated Financial Statements included in this Annual Report.

RF Technology

Our RF Technology segment provides radio frequency identification ("RFID") communication technology and software solutions. This segment had net revenues of \$2.17 billion for the year ended December 31, 2018, representing 41.8% of our total net revenues.

Comprehensive Application Management Software - We provide 1) enterprise software and information solutions for government contractors, professional services firms and other project-based businesses, 2) comprehensive management software solutions for law and other professional services firms, including business development, calendar/docket matter management, time and billing and case management, and 3) financial and compliance management software and solutions to large complex companies in asset-intensive industries.

Software-as-a-Service - We maintain electronic marketplaces that connect 1) available capacity of trucking units with the available loads of freight to be moved from location to location throughout North America, 2) food suppliers, distributors and vendors, primarily in the perishable food sector and 3) construction industry professionals.

Card Systems/Integrated Security Solutions - We provide software, card systems and integrated security solutions primarily to education and health care markets. We also provide an integrated nutrition management solution used by food service customers.

Toll and Traffic Systems - We manufacture and sell toll tags and monitoring systems as well as provide transaction and violation processing services for toll and traffic systems to both governmental and private sector entities. In addition, we provide intelligent traffic systems that assist customers in improving traffic flow and infrastructure utilization.

RFID Card Readers - We design, develop and manufacture RFID card readers that support most smart cards worldwide. The readers are used in numerous applications and OEM solutions including secure printing and single sign-on across several vertical markets including healthcare, manufacturing and government.

Metering and Remote Monitoring - We manufacture and sell meter reading, data logging and pressure control products for use primarily in water and gas applications. We also provide network monitoring, leakage reduction and pressure control services in water and gas distribution networks.

Medical and Scientific Imaging

Our Medical & Scientific Imaging segment offers products and software in medical applications, and high performance digital imaging products. For 2018, this segment had net revenues of \$1.52 billion, representing 29.3% of our total net revenues.

Medical Products and Software - We provide diagnostic and laboratory software solutions to healthcare providers and services and technologies to support the diverse and complex needs of alternate site health care providers who deliver services outside of an acute care hospital setting. We provide a cloud-based financial analytics and performance software platform to healthcare providers. We also manufacture and sell patient positioning devices and related software for use in radiation oncology and 3-D measurement technology in computer-assisted surgery, and we supply diagnostic and therapeutic disposable products used in ultrasound imaging for minimally invasive medical procedures. We design and manufacture a non-invasive instrument for portable ultrasound bladder volume measurement and a video laryngoscope designed to enable rapid intubation in difficult situations.

Digital Imaging Products and Software - We manufacture and sell extremely sensitive, high-performance electron filters, charged couple device ("CCD") and complementary metal oxide semiconductor ("CMOS") cameras, detectors and related software for a variety of scientific and industrial uses, which require high resolution and/or high speed digital video, including electron microscopy and spectroscopy applications. We sell these products for use within academic, government research, semiconductor, security and other end-user markets such as biological and material science. They are frequently incorporated into products by original equipment manufacturers ("OEMs").

Industrial Technology

Our Industrial Technology segment produces primarily water meter and meter reading technology, fluid handling pumps, and materials analysis solutions. For 2018, this segment had net revenues of \$900, representing 17.3% of our total net revenues.

Water Meter and Automatic Meter Reading Products and Systems - We manufacture and distribute water meter products serving the residential, commercial and industrial water management markets, and several lines of automatic meter reading products and systems serving these markets.

Fluid Handling Pumps - We manufacture and sell a wide variety of pumps. These pumps vary significantly in complexity and in pumping method employed, which allows for the movement and application of a diverse range of low and high viscosity liquids, high solids content slurries and chemicals. Our pumps are used in end markets such as

oil and gas, agricultural, water and wastewater, chemical and general industrial.

Materials Analysis Equipment and Consumables - We manufacture and sell equipment and supply consumables necessary to prepare material samples for testing and analysis. These products are used mostly within the material science, steel, automotive, electronics, mining and research end-user markets.

The Industrial Technology segment companies' revenues reflect a combination of standard products and specially engineered, application-specific products. Standard products are typically shipped within two weeks of receipt of order. Application-specific products typically ship within 6 to 12 weeks following receipt of order. However, larger project orders and blanket purchase orders for certain OEMs may extend shipment for longer periods.

Energy Systems & Controls

Our Energy Systems & Controls segment principally produces control systems, testing equipment, valves and sensors. For 2018, this segment had net revenues of \$600, representing 11.6% of our total net revenues.

Control Systems - We manufacture control systems and provide related engineering and commissioning services for turbomachinery applications, primarily in energy markets.

Fluid Properties Testing Equipment - We manufacture and sell test equipment to determine physical and elemental properties, such as sulfur and nitrogen content, flash point, viscosity, freeze point and distillation range of liquids and gases primarily for the petroleum industry.

Sensors, Controls and Valves - We manufacture sensors and control equipment including pressure sensors, temperature sensors, measurement instruments and control software for global rubber, plastics and process industries. We also manufacture and distribute valves, sensors, switches and control products used on engines, compressors, turbines and other powered equipment for the oil and gas, pipeline, power generation, marine engine and general industrial markets. Many of these products are designed for use in hazardous environments.

Non-destructive Inspection and Measurement Instrumentation - We manufacture non-destructive inspection and measurement solutions including measurement probes, robotics, vibration sensors, switches and transmitters. These solutions are applied principally in nuclear energy markets. Many of these products are designed for use in hazardous environments.

The Energy Systems & Controls segment companies' revenues reflect a combination of standard products and large engineered projects. Standard products generally ship within two weeks of receipt of order, and large engineered projects may have lead times of several months. As such, backlog may fluctuate depending upon the timing of large project awards.

Materials and Suppliers

We believe most materials and supplies we use are readily available from numerous sources and suppliers throughout the world. However, some components and sub-assemblies are currently available from a limited number of suppliers. Some high-performance components for digital imaging products can be in short supply and/or suppliers have occasional difficulty manufacturing such components to our specifications. We regularly investigate and identify alternative sources where possible, and we believe these conditions equally affect our competitors. Supply shortages have not had a material adverse effect on our revenues although delays in shipments have occurred following such supply interruptions.

Backlog

Our backlog includes only firm unfilled orders expected to be recognized as revenue within twelve months. Backlog was \$1.69 billion at December 31, 2018, and \$1.67 billion at December 31, 2017.

Distribution and Sales

Distribution and sales occur through direct sales offices, manufacturers' representatives and distributors. In addition, our Medical & Scientific Imaging segment also sells through value added resellers ("VARs") and OEMs.

Environmental Matters and Other Governmental Regulation

Our operations and properties are subject to laws and regulations relating to environmental protection, including those governing air emissions, water discharges, waste management and workplace safety. We use, generate and dispose of hazardous substances and waste in our operations and could be subject to material liabilities relating to the investigation and clean-up of contaminated properties and related claims. We are required to conform our operations and properties to these laws and adapt to regulatory requirements in all countries as these requirements change. In connection with our acquisitions, we may assume significant environmental liabilities, some of which we may not be aware of, or may not be quantifiable, at the time of acquisition. In addition, new laws and regulations, the discovery of previously unknown contamination or the imposition of new requirements could increase our costs or subject us to new or increased liabilities.

Customers

No customer accounted for 10% or more of net revenues for 2018 for any of our segments or for our company as a whole.

Competition

Generally, our products and solutions face significant competition, usually from a limited number of competitors. We believe that we are a leader in most of our markets, and no single company competes with us over a significant number of product lines. Competitors might be large or small in size, often depending on the size of the niche market we serve. We compete primarily on product quality, performance, innovation, technology, price, applications expertise, system and service flexibility, distribution channel access and customer service capabilities.

Patents and Trademarks

In addition to trade secrets, unpatented know-how, and other intellectual property rights, we own or license the rights under a number of patents, trademarks and copyrights relating to certain of our products and businesses. We also employ various methods, including confidentiality and non-disclosure agreements with individuals and companies we do business with, employees, distributors, representatives and customers to protect our trade secrets and know-how. We believe none of our operating units are substantially dependent on any single patent, trademark, copyright, or other item of intellectual property or group of patents, trademarks or copyrights.

Employees

As of December 31, 2018, we had 15,611 employees, with 10,294 located in the United States. We have 195 employees who are subject to collective bargaining agreements. We have not experienced any work stoppages and consider our relations with our employees to be good.

Available Information

All reports we file electronically with the SEC, including our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and our annual proxy statements, as well as any amendments to those reports, are accessible at no cost on our website at www.ropertech.com as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. These filings are also accessible on the SEC's website at www.sec.gov. Our Corporate Governance Guidelines; the charters of our Audit Committee, Compensation Committee, and Nominating and Governance Committee; and our Business Code of Ethics and Standards of Conduct are also available on our website. Any amendment to the Business Code of Ethics and Standards of Conduct and any waiver applicable to our directors, executive officers or senior financial officers will be posted on our website within the time period required by the SEC and the New York Stock Exchange (the "NYSE"). The information posted on our website is not incorporated into this Annual Report.

We have included the Chief Executive Officer and the Chief Financial Officer certifications regarding our public disclosure required by Section 302 of the Sarbanes-Oxley Act of 2002 as Exhibits 31.1 and 31.2 of this report. Additionally, we filed with the NYSE the Chief Executive Officer certification regarding our compliance with the NYSE's Corporate Governance Listing Standards (the "Listing Standards") pursuant to Section 303A.12(a) of the Listing Standards. We filed the certification with the NYSE on June 12, 2018 and our Chief Executive Officer indicated that he was not aware of any violations of the Listing Standards by us.

ITEM 1A. RISK FACTORS

Risks Relating to Our Business

Our indebtedness may affect our business and may restrict our operating flexibility.

As of December 31, 2018, we had \$4.9 billion in total consolidated indebtedness. In addition, we had \$1.6 billion undrawn availability under our senior unsecured credit facility. Subject to restrictions contained in our credit facility, we may incur additional indebtedness in the future, including indebtedness incurred to finance acquisitions.

Our level of indebtedness and the debt servicing costs associated with that indebtedness could have important effects on our operations and business strategy. For example, our indebtedness could:

limit our ability to borrow additional funds;

4imit our ability to complete future acquisitions;

4imit our ability to pay dividends;

4imit our ability to make capital expenditures;

place us at a competitive disadvantage relative to our competitors, some of which have lower debt service obligations and greater financial resources; and

increase our vulnerability to general adverse economic and industry conditions.

Our ability to make scheduled principal payments of, to pay interest on, or to refinance our indebtedness and to satisfy our other debt obligations will depend upon our future operating performance, which may be affected by factors beyond our control. In addition, there can be no assurance that future borrowings or equity financing will be available to us on favorable terms for the payment or refinancing of our indebtedness. If we are unable to service our indebtedness, our business, financial condition and results of operations would be materially adversely affected.

Our credit facility contains covenants requiring us to achieve certain financial and operating results and maintain compliance with specified financial ratios. Our ability to meet the financial covenants or requirements in our credit facility may be affected by events beyond our control, and we may not be able to satisfy such covenants and requirements. A breach of these covenants or our inability to comply with the financial ratios, tests or other restrictions contained in our facility could result in an event of default under this facility. Upon the occurrence of an event of default under our credit facility, and the expiration of any grace periods, the lenders could elect to declare all amounts outstanding under the facility, together with accrued interest, to be immediately due and payable. If this were to occur, our assets may not be sufficient to fully repay the amounts due under this facility or our other indebtedness.

Unfavorable changes in foreign exchange rates may harm our business.

Several of our operating companies have transactions and balances denominated in currencies other than the U.S. dollar. Most of these transactions and balances are denominated in euros, Canadian dollars, British pounds or Danish kroner. Sales by our operating companies whose functional currency is not the U.S. dollar represented 17% of our total net revenues for both the years ended December 31, 2018 and 2017. Unfavorable changes in exchange rates between the U.S. dollar and those currencies could significantly reduce our reported revenues and earnings.

We export a significant portion of our products. Difficulties associated with the export of our products could harm our business.

Sales to customers outside the U.S. by our businesses located in the U.S. account for a significant portion of our net revenues. These sales accounted for 11% of our net revenues for both the years ended December 31, 2018 and 2017. We are subject to risks that could limit our ability to export our products or otherwise reduce the demand for these products in our foreign markets. Such risks include, without limitation, the following:

unfavorable changes in or noncompliance with U.S. and other jurisdictions' export requirements; restrictions on the export of technology and related products; unfavorable changes in or noncompliance with U.S. and other jurisdictions' export policies to certain countries; unfavorable changes in the import policies of our foreign markets; and

The occurrence of any of these events could reduce the foreign demand for our products or could limit our ability to export our products and, therefore, could have a material negative effect on our future sales and earnings.

Economic, political and other risks associated with our international operations could adversely affect our business.

As of and for the year ended December 31, 2018, 20% of our net revenues and 17% of our long-lived assets, excluding goodwill and intangibles, were attributable to operations outside the U.S. We expect our international operations to contribute materially to our business for the foreseeable future. Our international operations are subject to varying degrees of risk inherent in doing business outside the U.S. including, without limitation, the following:

adverse changes in a specific country's or region's political or economic conditions, particularly in emerging markets; oil price volatility;

trade protection measures, tariffs, and import or export requirements;

subsidies or increased access to capital for firms that are currently, or may emerge as, competitors in countries in which we have operations;

partial or total expropriation;

potentially negative consequences from changes in tax laws;

difficulty in staffing and managing widespread operations;

a general economic downturn in our foreign markets.

differing labor regulations;

differing protection of intellectual property;

differing and unexpected changes in regulatory requirements; and

potentially negative consequences from the United Kingdom's exit from the European Union.

Our growth strategy includes acquisitions. We may not be able to identify suitable acquisition candidates, complete acquisitions or integrate acquisitions successfully.

Our future growth is likely to depend to some degree on our ability to acquire and successfully integrate new businesses. We intend to seek additional acquisition opportunities, both to expand into new markets and to enhance our position in existing markets. There are no assurances, however, that we will be able to successfully identify suitable candidates, negotiate appropriate terms, obtain financing on acceptable terms, complete proposed acquisitions, successfully integrate acquired businesses or expand into new markets. Once acquired, operations may not achieve anticipated levels of revenues or profitability.

Acquisitions involve risks, including difficulties in the integration of the operations, technologies, services and products of the acquired companies and the diversion of management's attention from other business concerns.

Although our management will endeavor to evaluate the risks inherent in any particular transaction, there are no assurances that we will properly ascertain all such risks. In addition, prior acquisitions have resulted, and future acquisitions could result, in the incurrence of substantial additional indebtedness and other expenses. Future acquisitions may also result in potentially dilutive issuances of equity securities. Difficulties encountered with acquisitions may have a material adverse effect on our business, financial condition and results of operations.

Our technology is important to our success and our failure to protect this technology could put us at a competitive disadvantage.

Many of our products rely on proprietary technology; therefore we believe that the development and protection of intellectual property rights through patents, copyrights, trade secrets, trademarks, confidentiality agreements and other contractual provisions are important to the future success of our business. Despite our efforts to protect proprietary rights, unauthorized parties or competitors may copy or otherwise obtain and use our products or technology. Actions to enforce these rights may result in substantial costs and diversion of resources, and we make no assurances that any such actions will be successful.

Product liability, insurance risks and increased insurance costs could harm our operating results.

Our business exposes us to product liability risks in the design, manufacture and distribution of our products. In addition, certain of our products are used in hazardous environments. We currently have product liability insurance; however, we may not be able to maintain our insurance at a reasonable cost or in sufficient amounts to adequately protect us against losses. We also maintain other insurance policies, including directors' and officers' liability insurance. We believe we have adequately accrued estimated losses, principally related to deductible amounts under our insurance policies, with respect to all product liability and other claims, based upon our past experience and available facts. However, a successful product liability or other claim or series of claims brought against us could have a material adverse effect on our business, financial condition and results of operations. In addition, a significant increase in our insurance costs could have an adverse impact on our operating results.

Our operating results could be adversely affected by a reduction of business with our large customers.

In some of our businesses, we derive a significant amount of revenue from large customers. The loss or reduction of any significant contracts with any of these customers could reduce our revenues and cash flows. Additionally, many of our customers are government entities. In many situations, government entities can unilaterally terminate or modify our existing contracts without cause and without penalty to the government agency.

We face intense competition. If we do not compete effectively, our business may suffer.

We face intense competition from numerous competitors. Our products compete primarily on the basis of product quality, performance, innovation, technology, price, applications expertise, system and service flexibility, distribution channel access and established customer service capabilities. We may not be able to compete effectively on all of these fronts or with all of our competitors. In addition, new competitors may emerge, and product lines may be threatened by new technologies or market trends that reduce the value of these product lines. To remain competitive, we must develop new products, respond to new technologies and enhance our existing products in a timely manner. We anticipate that we may have to adjust prices to stay competitive.

We rely on information and technology for many of our business operations which could fail and cause disruption to our business operations.

Our business operations are dependent upon information technology networks and systems to securely transmit, process and store electronic information and to communicate among our locations around the world and with clients and vendors. A shutdown of, or inability to access, one or more of our facilities, a power outage or a failure of one or more of our information technology, telecommunications or other systems could significantly impair our ability to perform such functions on a timely basis. Computer viruses, cyber-attacks, other external hazards and human error could result in the misappropriation of assets or sensitive information, corruption of data or operational disruption. If sustained or repeated, such a business interruption, system failure, service denial or data loss and damage could result

in a deterioration of our ability to perform necessary business functions.

A breach in the security of our software could harm our reputation, result in a loss of current and potential customers, and subject us to material claims, which could materially harm our operating results and financial condition.

If our security measures are breached, an unauthorized party may obtain access to our data or our users' or customers' data. In addition, cyber-attacks and similar acts could lead to interruptions and delays in customer processing or a loss or breach of customers' data. Because the techniques used to obtain unauthorized access, disable or degrade service, or sabotage systems change frequently and often are not recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures. The risk that these types of events could seriously harm our business is likely to increase as we expand the number of web-based products and services we offer, and operate in more countries.

Regulatory authorities around the world have adopted and are considering further adoption of legislative and regulatory proposals concerning data protection. In addition, the interpretation and application of consumer and data protection laws in the United

States, Europe and elsewhere are often uncertain and in flux. It is possible that these laws may be interpreted and applied in a manner that is inconsistent with our data practices. If so, in addition to the possibility of fines, this could result in an order requiring that we change our data practices, which could have an adverse effect on our business and results of operations.

Any security breaches for which we are, or are perceived to be, responsible, in whole or in part, could subject us to legal claims or legal proceedings, including regulatory investigations, which could harm our reputation and result in significant litigation costs and damage awards or settlement amounts. Any imposition of liability, particularly liability that is not covered by insurance or is in excess of insurance coverage, could materially harm our operating results and financial condition. Security breaches also could cause us to lose current and potential customers, which could have an adverse effect on our business. Moreover, we might be required to expend significant financial and other resources to protect further against security breaches or to rectify problems caused by any security breach.

Changes in the supply of, or price for, raw materials, parts and components used in our products could affect our business.

The availability and prices of raw materials, parts and components are subject to curtailment or change due to, among other things, suppliers' allocations to other purchasers, interruptions in production by suppliers, changes in exchange rates and prevailing price levels. Some high-performance components for digital imaging products may be in short supply and/or suppliers may have occasional difficulty manufacturing these components to meet our specifications. In addition, some of our products are provided by sole source suppliers. Any change in the supply of, or price for, these parts and components, as well as any increases in commodity prices, particularly copper, could affect our business, financial condition and results of operations.

Environmental compliance costs and liabilities could increase our expenses and adversely affect our financial condition.

Our operations and properties are subject to laws and regulations relating to environmental protection, including air emissions, water discharges, waste management and workplace safety. These laws and regulations can result in the imposition of substantial fines and sanctions for violations and could, in certain instances, require the installation of pollution control equipment or operational changes to limit pollution emissions and/or decrease the likelihood of accidental hazardous substance releases. We must conform our operations and properties to these laws and adapt to regulatory requirements in the countries in which we operate as these requirements change.

We use and generate hazardous substances and wastes in some of our operations and, as a result, could be subject to potentially material liabilities relating to the investigation and clean-up of contaminated properties and to claims alleging personal injury. We have experienced, and expect to continue to experience, costs relating to compliance with environmental laws and regulations. In connection with our acquisitions, we may assume significant environmental liabilities, some of which we may not be aware of at the time of acquisition. In addition, new laws and regulations, stricter enforcement of existing laws and regulations, the discovery of previously unknown contamination or the imposition of new clean-up requirements could require us to incur costs or become the basis for new or increased liabilities that could have a material adverse effect on our business, financial condition and results of operations.

Some of the industries in which we operate are cyclical, and, accordingly, our business is subject to changes in the economy.

Some of the business areas in which we operate are subject to specific industry and general economic cycles. Certain businesses are subject to industry cycles, including but not limited to, the industrial and energy markets. Accordingly, a downturn in these or other markets in which we participate could materially adversely affect us. If demand changes and we fail to respond accordingly, our results of operations could be materially adversely affected. The business

cycles of our different operations may occur contemporaneously. Consequently, the effect of an economic downturn may have a magnified negative effect on our business.

Our goodwill and intangible assets are a significant amount of our total assets, and any write-off of our intangible assets would negatively affect our results of operations.

Our total assets reflect substantial intangible assets, primarily goodwill. At December 31, 2018, goodwill totaled \$9.3 billion compared to \$7.7 billion of stockholders' equity, and represented 61% of our total assets of \$15.2 billion. The goodwill results from our acquisitions, representing the excess purchase price over the fair value of the net identifiable assets acquired. We assess at least annually whether there has been an impairment in the value of our goodwill and indefinite economic life intangible assets. If future operating performance at one or more of our business units were to fall significantly below current levels, if competing or alternative technologies emerge, if interest rates rise or if business valuations decline, we could incur a non-cash charge to operating income. Any determination requiring the write-off of a significant portion of goodwill or unamortized intangible assets would negatively affect our results of operations, the effect of which could be material.

We depend on our ability to develop new products, and any failure to develop or market new products could adversely affect our business.

The future success of our business will depend, in part, on our ability to design and manufacture new competitive products and to enhance existing products so that we maintain our margin profile. This product development may require substantial internal investment. There can be no assurance that unforeseen problems will not occur with respect to the development, performance or market acceptance of new technologies or products or that we will otherwise be able to successfully develop and market new products. Failure of our products to gain market acceptance or our failure to successfully develop and market new products could reduce our margins, which would have an adverse effect on our business, financial condition and results of operations.

Any business disruptions due to political instability, armed hostilities, incidents of terrorism or natural disasters could adversely impact our financial performance.

If terrorist activity, armed conflict, political instability or natural disasters occur in the U.S. or other locations, such events may negatively impact our operations, cause general economic conditions to deteriorate or cause demand for our products to decline. A prolonged economic slowdown or recession could reduce the demand for our products, and therefore, negatively affect our future sales and profits. Any of these events could have a significant impact on our business, financial condition or results of operations.

Recent significant changes to our executive leadership team and any future loss of members of such team, and the resulting management transitions, could harm our operating results.

We have recently experienced significant changes to our executive leadership team. Leadership transitions and changes can be inherently difficult to manage and may cause uncertainty or disruption to our business or may increase the likelihood of turnover in key leadership positions. If we cannot effectively manage leadership transitions and changes, it could make it more difficult to successfully operate our business.

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ITEM 1B. UNRESOLVED STAFF COMMENTS
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None			
12			

ITEM 2. PROPERTIES

Our corporate offices, consisting of 29,000 square feet of leased space, are located at 6901 Professional Parkway East, Sarasota, Florida. We have 154 principal locations around the world to support our operations, of which 46 are manufacturing, assembly and testing facilities, and the remaining 108 locations provide sales, programming, service and administrative support functions. We consider our facilities to be in good operating condition and adequate for their present use and believe we have sufficient capacity to meet our anticipated operating requirements.

The following table summarizes the size, location and usage of our principal properties as of December 31, 2018 (amounts in thousands of square feet).

(amounts in mousaines of squa	ic icci).			
		Office	Office Manufa	& acturing
Segment	Region	Leased		Owned
RF Technology				
	U.S.	1,611	121	_
	Canada	51	_	_
	Europe	87	3	16
	Asia-Pacific	129	13	_
Medical & Scientific Imaging				
	U.S.	359	268	120
	Canada		116	
	Europe	79	16	
	Asia-Pacific	:34	8	_
	Mexico		_	_
Industrial Technology				
	U.S.	103	260	478
	Canada	50		_
	Europe	34	144	43
	Asia-Pacific	:30	_	_
	Mexico	2	60	_
Energy Systems & Controls				
	U.S.		286	_
	Canada		79	_
	Europe	40	21	128
	Asia-Pacific	25	4	33

ITEM 3. LEGAL PROCEEDINGS

Information pertaining to legal proceedings can be found in Note 12 to the Consolidated Financial Statements included in this Annual Report, and is incorporated by reference herein.

ITEM 4. MINE SAFETY DISCLOSURES

None

PART II

ITEM MARKET FOR REGISTRANT'S COMMON EQUITY RELATED STOCKHOLDER MATTERS AND 5. ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock trades on the NYSE under the symbol "ROP". Based on information available to us and our transfer agent, we believe that as of February 15, 2019 there were 145 record holders of our common stock.

Dividends – We have declared a cash dividend in each quarter since our February 1992 initial public offering and we have annually increased our dividend rate since our initial public offering. In November 2018, our Board of Directors increased the quarterly dividend paid January 23, 2019 to \$0.4625 per share from \$0.4125 per share, an increase of 12%. This is the twenty-sixth consecutive year in which Roper has increased its dividend. The timing, declaration and payment of future dividends will be at the sole discretion of our Board of Directors and will depend upon our profitability, financial condition, capital needs, future prospects and other factors deemed relevant by our Board of Directors.

Recent Sales of Unregistered Securities - In 2018, there were no sales of unregistered securities.

Performance Graph - This performance graph shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or otherwise subject to the liabilities under that Section and shall not be deemed to be incorporated by reference into any of our filings under the Securities Act of 1933, as amended, or under the Exchange Act.

The following graph compares, for the five year period ended December 31, 2018, the cumulative total stockholder return for our common stock, the Standard and Poor's 500 Stock Index (the "S&P 500") and the Standard and Poor's 500 Industrials Index (the "S&P 500 Industrials"). Measurement points are the last trading day of each of our fiscal years ended December 31, 2013, 2014, 2015, 2016, 2017 and 2018. The graph assumes that \$100 was invested on December 31, 2013 in our common stock, the S&P 500 and the S&P 500 Industrials and assumes reinvestment of any dividends. The stock price performance on the following graph is not necessarily indicative of future stock price performance.

	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018
Roper Technologies, Inc.	\$ 100.00	\$ 113.39	\$ 138.48	\$ 134.49	\$ 191.49	\$ 198.22
S&P 500	100.00	113.69	115.26	129.05	157.22	150.33
S&P 500 Industrials	100.00	109.83	107.04	127.23	153.99	133.53

The information set forth in Item 12 under the heading "Securities Authorized for Issuance under Equity Compensation Plans" is incorporated herein by reference.

ITEM 6. SELECTED FINANCIAL DATA

You should read the table below in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our Consolidated Financial Statements and related notes included in this Annual Report (amounts in millions, except per share data).

(unloants in initions, except per share date	(unlocates in infinious, except per share data).				
	As of and for the Years ended December 31,				
	2018 (1)	2017 (2)	2016 (3)	2015 (4)	2014 (5)
Operations data:					
Net revenues	\$5,191.2	\$4,607.5	\$3,789.9	\$3,582.4	\$3,549.5
Gross profit	3,279.5	2,864.8	2,332.4	2,164.6	2,101.9
Income from operations	1,396.4	1,210.2	1,054.6	1,027.9	999.5
Net earnings (6)	944.4	971.8	658.6	696.1	646.0
Per share data:					
Basic earnings per share	\$9.15	\$9.51	\$6.50	\$6.92	\$6.47
Diluted earnings per share	\$9.05	\$9.39	\$6.43	\$6.85	\$6.40
Dividends declared per share	\$1.7000	\$1.4625	\$1.2500	\$1.0500	\$0.8500
Balance sheet data:					
Cash and cash equivalents	\$364.4	\$671.3	\$757.2	\$778.5	\$610.4
Working capital (7)	(200.4)	(140.4)	(25.0)	126.2	284.9
Total assets (9)	15,249.5	14,316.4	14,324.9	10,168.4	8,400.2
Current portion of long-term debt (8)	1.5	800.9	401.0	6.8	11.1
Long-term debt, net of current portion (9)	4,940.2	4,354.6	5,808.6	3,264.4	2,190.3
Stockholders' equity	7,738.5	6,863.6	5,788.9	5,298.9	4,755.4

- Includes results from the acquisitions of Quote Software from January 2, 2018, PlanSwift Software from March 28,
- (1) 2018, Smartbid from May 8, 2018, PowerPlan, Inc. from June 4, 2018, ConceptShare from June 7, 2018, BillBlast from July 10, 2018 and Avitru from December 31, 2018.
- (2) Includes results from the acquisitions of Phase Technology from June 21, 2017, Handshake Software, Inc. from August 4, 2017, Workbook Software A/S from September 15, 2017 and Onvia, Inc. from November 17, 2017. Includes results from the acquisitions of CliniSys Group Ltd. from January 7, 2016, PCI Medical Inc. from March
- (3) 17, 2016, GeneInsight Inc. from April 1, 2016, iSqFt Holdings Inc. (d/b/a ConstructConnect) from October 31, 2016, UNIConnect LC from November 10, 2016 and Deltek, Inc. from December 28, 2016. Includes results from the acquisitions of Strata Decision Technologies LLC from January 21, 2015, SoftWriters Inc. from February 9, 2015, Data Innovations LLC from March 4, 2015, On Center Software LLC from July 20,
- (4) 2015, RF IDeas Inc. from September 1, 2015, Atlantic Health Partners LLC from September 4, 2015, Aderant Holdings Inc. from October 21, 2015, Atlas Database Software Corp. from October 26, 2015, Black Diamond Advanced Technologies through March 20, 2015 and Abel Pumps through October 2, 2015.
- (5) Includes results from the acquisitions of Foodlink Holdings Inc. from July 2, 2014, Innovative Product Achievements LLC from August 5, 2014, Strategic Healthcare Programs Holdings LLC from August 14, 2014. The Tax Cuts and Jobs Act of 2017 ("the Tax Act") was signed into U.S. law on December 22, 2017, which was
- (6) prior to the end of the Company's 2017 reporting period and resulted in a one-time net income tax benefit of \$215.4.
- (7) Net working capital equals current assets, excluding cash, less total current liabilities, excluding debt.
 - At December 31, 2017, there were \$799 of senior notes, net of debt issuance costs, due October 1, 2018,
- and at December 31, 2016, there were \$399 of senior notes, net of debt issuance costs, due November 15, 2017, thus requiring classification as short-term debt, included in working capital.

Total assets and Long-term debt, net of current portion as of December 31, 2014 have been adjusted by \$12.7 due (9) to the retrospective adoption of an accounting standard update which requires that our senior notes be shown net of debt issuance costs.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

All currency amounts are in millions unless specified

You should read the following discussion in conjunction with "Selected Financial Data" and our Consolidated Financial Statements and related notes included in this Annual Report.

Overview

We are a diversified technology company. We operate businesses that design and develop software (both license and software-as-a-service) and engineered products and solutions for a variety of niche end markets.

We pursue consistent and sustainable growth in earnings and cash flow by emphasizing continuous improvement in the operating performance of our existing businesses and by acquiring other carefully selected businesses. Our acquisitions have represented both new strategic platforms and additions to existing businesses.

Application of Critical Accounting Policies

Our Consolidated Financial Statements are prepared in conformity with generally accepted accounting principles in the United States ("GAAP"). A discussion of our significant accounting policies can also be found in the notes to our Consolidated Financial Statements for the year ended December 31, 2018 included in this Annual Report.

GAAP offers acceptable alternative methods for accounting for certain issues affecting our financial results, such as determining inventory cost, depreciating long-lived assets and recognizing revenue. We have not changed the application of acceptable accounting methods or the significant estimates affecting the application of these principles in the last three years in a manner that had a material effect on our consolidated financial statements.

The preparation of financial statements in accordance with GAAP requires the use of estimates, assumptions, judgments and interpretations that can affect the reported amounts of assets, liabilities, revenues and expenses, the disclosure of contingent assets and liabilities and other supplemental disclosures.

The development of accounting estimates is the responsibility of our management. Our management discusses those areas that require significant judgments with the Audit Committee of our Board of Directors. The Audit Committee has reviewed all financial disclosures in our annual filings with the SEC. Although we believe the positions we have taken with regard to uncertainties are reasonable, others might reach different conclusions and our positions can change over time as more information becomes available. If an accounting estimate changes, its effects are accounted for prospectively or through a cumulative catch up adjustment.

Our most significant accounting uncertainties are encountered in the areas of accounts receivable collectibility, inventory valuation, future warranty obligations, revenue recognition, income taxes and goodwill and indefinite-lived impairment analyses. These issues affect each of our business segments and are evaluated using a combination of historical experience, current conditions and relatively short-term forecasting.

Accounts receivable collectibility is based on the economic circumstances of customers and credits given to customers after shipment of products, including in certain cases credits for returned products. Accounts receivable are regularly reviewed to determine customers who have not paid within agreed upon terms, whether these amounts are consistent with past experiences, what historical experience has been with amounts deemed uncollectible and the impact that economic conditions might have on collection efforts in general and with specific customers. The returns and other

sales credit allowance is an estimate of customer returns, exchanges, discounts or other forms of anticipated concessions and is treated as a reduction in revenue. The returns and other sales credits histories are analyzed to determine likely future rates for such credits. At December 31, 2018, our allowance for doubtful accounts receivable was \$17.3 and our allowance for sales returns and sales credits was \$5.8, for a total of \$23.1, or 3.2% of total gross accounts receivable, as compared to a total of \$12.7, or 1.9% of total gross accounts receivable, at December 31, 2017. This percentage is influenced by the risk profile of the underlying receivables, and the timing of write-offs of accounts deemed uncollectible.

We regularly compare inventory quantities on hand against anticipated future usage, which we determine as a function of historical usage or forecasts related to specific items in order to evaluate obsolescence and excessive quantities. When we use historical usage, this information is also qualitatively compared to business trends to evaluate the reasonableness of using historical information as an estimate of future usage. At December 31, 2018, inventory reserves for excess and obsolete inventory were

\$30.3, or 13.7% of gross inventory cost, as compared to \$38.1, or 15.7% of gross inventory cost, at December 31, 2017. The inventory reserve as a percent of gross inventory cost will continue to fluctuate based upon specific identification of reserves needed based upon changes in our business as well as the physical disposal of obsolete inventory.

Most of our product-based revenues are covered by warranty provisions that generally provide for the repair or replacement of qualifying defective items for a specified period after the time of sale, typically 12 to 24 months. Future warranty obligations are evaluated using, among other factors, historical cost experience, product evolution and customer feedback. Our expense for warranty obligations was less than 1% of net revenues for each of the years ended December 31, 2018, 2017 and 2016.

Revenues from our project-based businesses, including toll and traffic systems, control systems and installations of large software application projects, are generally recognized over time using the input method, primarily utilizing the ratio of costs incurred to total estimated costs, as the measure of performance. The Company recognized revenues of \$245.9, \$249.3 and \$241.3 for the years ended December 31, 2018, 2017 and 2016, respectively, using this method. At December 31, 2018, \$241.6 of revenue related to unfinished percentage-of-completion contracts had yet to be recognized.

Income taxes can be affected by estimates of whether and within which jurisdictions future earnings will occur and if, how and when cash is repatriated to the U.S., combined with other aspects of an overall income tax strategy. Additionally, taxing jurisdictions could retroactively disagree with our tax treatment of certain items, and some historical transactions have income tax effects going forward. Accounting rules require these future effects to be evaluated using current laws, rules and regulations, each of which can change at any time and in an unpredictable manner. During 2018, our effective income tax rate was 21.2%, as compared to the 2017 rate of 6.1%. The increase was due primarily to the recognition of a \$215.4 net income tax benefit related to the Tax Act in 2017, partially offset by the reduction in the U.S. federal corporate income tax rate from 35% to 21%. We expect the effective tax rate for 2019 to be between 21% and 23%.

We account for goodwill in a purchase business combination as the excess purchase price over the fair value of the net identifiable assets acquired. Goodwill, which is not amortized, is tested for impairment on an annual basis in conjunction with our annual forecast process during the fourth quarter (or an interim basis if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying value).

When testing goodwill for impairment, we have the option to first assess qualitative factors to determine whether the existence of events or circumstances leads to a determination that it is more likely than not that the estimated fair value of a reporting unit is less than its carrying amount. If we elect to perform a qualitative assessment and determine that an impairment is more likely than not, we are then required to perform the quantitative impairment test; otherwise, no further analysis is required. Under the qualitative assessment, we consider various qualitative factors, including macroeconomic conditions, relevant industry and market trends, cost factors, overall financial performance, other entity-specific events and events affecting the reporting unit that could indicate a potential change in the fair value of our reporting unit or the composition of its carrying values. We also consider the specific future outlook for the reporting unit.

We also may elect not to perform the qualitative assessment and, instead, proceed directly to the quantitative impairment test. The quantitative assessment utilizes both an income approach (discounted cash flows) and a market approach (consisting of a comparable company earnings multiples methodology) to estimate the fair value of a reporting unit. To determine the reasonableness of the estimated fair values, we review the assumptions to ensure that neither the income approach nor the market approach provides significantly different valuations. If the estimated fair

value exceeds the carrying value, no further work is required and no impairment loss is recognized. If the carrying value exceeds the estimated fair value, a non-cash impairment loss is recognized in the amount of that excess.

Key assumptions used in the income and market approaches are updated when the analysis is performed for each reporting unit. Various assumptions are utilized including forecasted operating results, strategic plans, economic projections, anticipated future cash flows, the weighted-average cost of capital, comparable transactions, market data and earnings multiples. While we use reasonable and timely information to prepare our cash flow and discount rate assumptions, actual future cash flows or market conditions could differ significantly and could result in future non-cash impairment charges related to recorded goodwill balances.

Recently acquired reporting units generally represent a higher inherent risk of impairment, which typically decreases as the businesses are integrated into our enterprise. Negative industry or economic trends, disruptions to our business, actual results significantly below projections, unexpected significant changes or planned changes in the use of the assets, divestitures and market capitalization declines may have a negative effect on the fair value of our reporting units.

Roper has 33 reporting units with individual goodwill amounts ranging from zero to \$2.4 billion. In 2018, the Company performed its annual impairment test in the fourth quarter for all reporting units. The Company conducted its analysis qualitatively and

assessed whether it was more likely than not that the respective fair value of these reporting units was less than the carrying amount. The Company determined that impairment of goodwill was not likely in 30 of its reporting units and thus was not required to perform a quantitative assessment for these reporting units. For the remaining three reporting units, the Company performed its quantitative assessment and concluded that the fair value of each of these three reporting units was substantially in excess of its carrying value, with no impairment indicated as of October 1, 2018.

Trade names that are determined to have an indefinite useful economic life are not amortized, but separately tested for impairment during the fourth quarter of the fiscal year or on an interim basis if an event occurs that indicates the fair value is more likely than not below the carrying value. We first qualitatively assess whether the existence of events or circumstances leads to a determination that it is more likely than not that the estimated fair value of the indefinite-lived trade name is less than its carrying amount. If necessary, we conduct a quantitative assessment using the relief-from-royalty method, which we believe to be an acceptable methodology due to its common use by valuation specialists in determining the fair value of intangible assets. This methodology assumes that, in lieu of ownership, a third-party would be willing to pay a royalty in order to exploit the related benefits of these assets. The fair value of each trade name is determined by applying a royalty rate to a projection of net revenues discounted using a risk-adjusted rate of capital. Each royalty rate is determined based on the profitability of the trade name to which it relates and observed market royalty rates. Revenue growth rates are determined after considering current and future economic conditions, recent sales trends, discussions with customers, planned timing of new product launches or other variables. Trade names resulting from recent acquisitions generally represent the highest risk of impairment, which typically decreases as the businesses are integrated into our enterprise and positioned for future sales growth.

The Company performed a quantitative analysis over the fair values of four of its trade names and concluded that the fair value exceeded its carrying value, with no impairment indicated as of October 1, 2018. Of those trade names subjected to our quantitative analysis, one, associated with our lab software business, had a fair value that approximated its carrying value, which was \$100.4 as of October 1, 2018. Holding other assumptions constant, for the specific trade name associated with our lab software business, a 50 basis point increase in the discount rate would result in a \$6.8 impairment and a 100 basis point decrease in the terminal growth rate would result in an \$11.7 impairment.

The assessment of fair value for impairment purposes requires significant judgments to be made by management. Although our forecasts are based on assumptions that are considered reasonable by management and consistent with the plans and estimates management uses to operate the underlying businesses, there is significant judgment in determining the expected results attributable to the businesses and/or reporting units. Changes in estimates or the application of alternative assumptions could produce significantly different results. No impairment resulted from the annual reviews performed in 2018.

The most significant identifiable intangible assets with definite useful economic lives recognized from our acquisitions are customer relationships. The fair value for customer relationships is determined as of the acquisition date using the excess earnings method. Under this methodology the fair value is determined based on the estimated future after-tax cash flows arising from the acquired customer relationships over their estimated lives after considering customer attrition and contributory asset charges. When testing customer relationship intangible assets for potential impairment, management considers historical customer attrition rates and projected revenues and profitability related to customers that existed at acquisition. In evaluating the amortizable life for customer relationship intangible assets, management considers historical customer attrition patterns.

We evaluate whether there has been an impairment of identifiable intangible assets with definite useful economic lives, or of the remaining life of such assets, when certain indicators of impairment are present. In the event that facts and circumstances indicate that the cost or remaining period of amortization of any asset may be impaired, an evaluation of recoverability would be performed. If an evaluation is required, the estimated future gross, undiscounted

cash flows associated with the asset would be compared to the asset's carrying amount to determine if a write-down to fair value or a revision in the remaining amortization period is required.

Results of Operations

All currency amounts are in millions unless specified, percentages are net of revenues

Percentages may not sum due to rounding.

The following table sets forth selected information for the years indicated.

	Years ended December 31,					
	2018		2017		2016	
Net revenues:						
RF Technology (1)	\$2,168.4		\$1,862.	1	\$1,210	0.3
Medical & Scientific Imaging (2)	1,522.4		1,410.4		1,362.	8
Industrial Technology	900.0		783.7		706.6	
Energy Systems & Controls (3)	600.4		551.3		510.2	
Total	\$5,191.2	2	\$4,607.	5	\$3,789	9.9
Gross margin:						
RF Technology	63.9	%	61.1	%	56.7	%
Medical & Scientific Imaging	71.4		72.0		73.2	
Industrial Technology	50.9		50.6		50.6	
Energy Systems & Controls	58.2		57.4		57.1	
Total	63.2	%	62.2	%	61.5	%
Segment operating margin:						
RF Technology	28.3	%	25.7	%	30.8	%
Medical & Scientific Imaging	34.2		34.5		35.0	
Industrial Technology	31.6		30.0		28.7	
Energy Systems & Controls	30.1		27.4		25.4	
Total	30.8	%	29.3	%	31.2	%
Corporate administrative expenses	(3.9)%	(3.1)%	(3.4)%
Income from operations	26.9		26.3		27.8	
Interest expense, net	(3.5)	(3.9)	(2.9)
Loss on debt extinguishment	(0.3)	_			
Other income/(expense)	_		0.1		(0.1)
Earnings before income taxes	23.1		22.5		24.8	
Income taxes	(4.9)	(1.4)	(7.4)
Net earnings	18.2	%	21.1	%	17.4	%

Includes results from the acquisitions of ConstructConnect from October 31, 2016, Deltek, Inc. from December 28, 2016, Handshake Software, Inc. from August 4, 2017, Workbook Software A/S from September 15, 2017, Onvia,

⁽¹⁾ Inc. from November 17, 2017, Quote Software from January 2, 2018, PlanSwift Software from March 28, 2018, Smartbid from May 8, 2018, PowerPlan, Inc. from June 4, 2018, ConceptShare from June 7, 2018, BillBlast from July 10, 2018 and Avitru from December 31, 2018.

⁽²⁾ Includes results from the acquisitions of CliniSys from January 7, 2016, PCI Medical from March 17, 2016, GeneInsight from April 1, 2016 and UNIConnect from November 10, 2016.

⁽³⁾ Includes results from the acquisition of Phase Technology from June 21, 2017.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Net revenues for the year ended December 31, 2018 were \$5.19 billion as compared to \$4.61 billion for the year ended December 31, 2017, an increase of 12.7%. The increase was the result of organic growth of 9.4%, a net effect from acquisitions and divestitures of 2.9%, and foreign exchange benefit of 0.4%.

In our RF Technology segment, net revenues for the year ended December 31, 2018 increased by \$306.3 or 16% over the year ended December 31, 2017. Organic revenues increased by 9% and acquisitions accounted for 7% of our growth. The growth in organic revenues was due primarily to broad-based strength across our software businesses and the non-recurrence of purchase accounting adjustments to acquired deferred revenues in the year ended December 31, 2017 associated with our 2016 Deltek and ConstructConnect acquisitions. Gross margin was 63.9% for the year ended December 31, 2018 as compared to 61.1% for the year ended December 31, 2017, due primarily to an increased percentage of revenues from our software businesses, which have higher gross margins, including the net reduction of purchase accounting adjustments. Selling, general and administrative ("SG&A") expenses as a percentage of revenues in the year ended December 31, 2018 increased to 35.6%, as compared to 35.3% in the year ended December 31, 2017, due primarily to an increased percentage of revenues from our software businesses, which have a higher SG&A structure, including amortization of acquired intangibles. The resulting operating margin was 28.3% in the year ended December 31, 2018 as compared to 25.7% in the year ended December 31, 2017.

Our Medical & Scientific Imaging segment reported a \$112.0 or 8% increase in net revenues for the year ended December 31, 2018 over the year ended December 31, 2017, all of which was attributable to organic growth. The growth in organic revenues was due primarily to broad-based growth in our imaging and medical products businesses. Gross margin decreased to 71.4% for the year ended December 31, 2018 from 72.0% for the year ended December 31, 2017, due primarily to growth in our lower margin imaging businesses. SG&A expenses as a percentage of net revenues decreased to 37.2% in the year ended December 31, 2018, as compared to 37.5% in the year ended December 31, 2017, due primarily to operating leverage on higher revenues at our imaging businesses. The resulting operating margin was 34.2% in the year ended December 31, 2018 as compared to 34.5% in the year ended December 31, 2017.

Net revenues for our Industrial Technology segment increased by \$116.3 or 15% for the year ended December 31, 2018 from the year ended December 31, 2017. Organic revenues increased 14% and the foreign exchange benefit was 1%. The growth in organic revenues was broad-based, due primarily to our fluid handling and water meter technology. Gross margin increased to 50.9% in the year ended December 31, 2018, as compared to 50.6% in the year ended December 31, 2017, and SG&A expenses as a percentage of net revenues decreased to 19.3% in the year ended December 31, 2018, as compared to 20.6% in the year ended December 31, 2017, both of which were due primarily to operating leverage on higher sales volume. The resulting operating margin was 31.6% in the year ended December 31, 2018 as compared to 30.0% in the year ended December 31, 2017.

In our Energy Systems & Controls segment, net revenues for the year ended December 31, 2018 increased by \$49.1 or 9% from the year ended December 31, 2017. Organic sales increased by 7% and the foreign exchange benefit was 1%. The growth in organic revenues was due to broad-based growth in our businesses serving energy and industrial end markets. Gross margin increased to 58.2%

56,810

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Net loss applicable to common shareholders

(751,86	666
(731,00	00
(131,81	16
(1,181,71	10
(471,35	53

Basic loss per share is computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding for the period. Diluted loss per share reflects the potential dilution from the exercise or conversion of other securities into common stock, but only if dilutive. Diluted loss per share for the three months and six months ended June 30, 2004 is the same as basic loss per share, since the effects of the calculation were anti-dilutive. The following securities, presented on a common share equivalent basis, have been excluded from the per share computations:

	Three Months End	Three Months Ended June 30,		d June 30,
	2004	2003	2004	2003
Stock Options	1,304,000	389,000	1,304,000	389,000
Warrants	11,569,803	140,000	11,569,803	140,000
Preferred Stock	7,578,985	-	7,578,985	-

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ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS AND PLAN OF OPERATION

This discussion and analysis should be read in conjunction with the accompanying Consolidated Financial Statements and related notes. Our discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of any contingent liabilities at the financial statement date and reported amounts of revenue and expenses during the reporting period. On an on-going basis we review our estimates and assumptions. Our estimates were based on our historical experience and other assumptions that we believe to be reasonable under the circumstances. Actual results are likely to differ from those estimates under different assumptions or conditions, but we do not believe such differences will materially affect our financial position or results of operations. Our critical accounting policies, the policies we believe are most important to the presentation of our financial statements and require the most difficult, subjective and complex judgments, are outlined below in Critical Accounting Policies, and have not changed significantly.

In addition, certain statements made in this report may constitute "forward-looking statements". These forward-looking statements involve known or unknown risks, uncertainties and other factors that may cause the actual results, performance, or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Specifically, 1) our ability to obtain necessary regulatory approvals for our products; and 2) our ability to increase revenues and operating income, is dependent upon our ability to develop and sell our products, general economic conditions, and other factors. You can identify forward-looking statements by terminology such as "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "continues" or the negative of these terms or other comparable terminology. Although we believe that the expectations reflected-in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements.

OVERVIEW

The following management discussion and analysis relates to the business of Chembio Diagnostic Systems, Inc., our 100% wholly-owned subsidiary. Prior to our merger with Chembio Diagnostics Systems, Inc. in early May 2004, we had no assets or liabilities and no operations. As a result of the merger, we added the assets, liabilities and business and operations of Chembio Diagnostics Systems, Inc. We are now de-emphasizing the manufacturing of private label pregnancy tests and focusing on developing products and then obtaining applicable clearances or approvals in the areas of rapid tests for HIV, tuberculosis, mad cow disease and dental disease. We either have or are pursuing collaborative agreements that may include distribution arrangements in each of these areas. We believe that our research and development, manufacturing overhead, selling, marketing and general and administrative costs will increase as we create the necessary infrastructure to focus in these new areas.

The de-emphases of the private label pregnancy tests will not impair any assets of Chembio Diagnostic Systems, Inc. This is primarily due to the gradual nature of this move. Chembio Diagnostic Systems, Inc. will continue to produce component parts, while transferring technology to another manufacturer.

Critical Accounting Policies and Estimates

We believe that there are several accounting policies that are critical to understanding our historical and future performance, as these policies affect the reported amounts of revenue and the more significant areas involving management s judgments and estimates. These significant accounting policies relate to revenue recognition, research and development costs, valuation of inventory, valuation of long-lived assets and income taxes. These policies, and our procedures related to these policies, are described in detail below.

1

Revenue Recognition -

We sell our products directly through our sales force and through distributors. Revenue from direct sales of our product is recognized upon shipment to the customer. We recognize income from research grants when earned. Grants are invoiced after expenses are incurred. Some grants are funded up front; these funds are then deferred until earned.

Research & Development Costs -

Research and development activities consist primarily of new product development and continuing engineering for existing products. Costs related to research and development efforts on existing or potential products are expensed as incurred.

Valuation of Inventories -

Inventories are stated at the lower of cost or market, using the first-in, first-out method (FIFO) to determine cost. Our policy is to periodically evaluate the market value of the inventory and the stage of product life cycle, and record a reserve for any inventory considered slow moving or obsolete.

Valuation of Long-Lived Assets -

We assess the realizable value of long-lived assets for potential impairment at least annually or when events and circumstances warrant such a review. The carrying value of a long-lived asset is considered impaired when the anticipated fair value is less than its carrying value. In assessing the recoverability of our long-lived assets, we must make assumptions regarding estimated future cash flows and other factors to determine the fair value of the respective assets. In addition, we must make assumptions regarding the useful lives of these assets.

Income Taxes -

We account for income taxes under SFAS No. 109, "Accounting for Income Taxes". SFAS No. 109 requires the asset and liability method of accounting for deferred income taxes. Deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities. Deferred tax assets or liabilities at the end of each period are determined using the tax rate expected to be in effect when taxes are actually paid or recovered.

SFAS 109 also requires that a valuation allowance be established when it is more likely than not that all or a portion of a deferred tax asset will not be realized. A review of all available positive and negative evidence needs to be considered, including a company s current and past performance, the market environment in which the company operates, length of carryback and carryforward periods and existing contracts that will result in future profits.

Forming a conclusion that a valuation allowance is not needed is difficult when there is negative objective evidence such as cumulative losses in recent years. Cumulative losses weigh heavily in the overall assessment. As a result, we determined that it was appropriate to establish a valuation allowance.

The above listing is not intended to be a comprehensive list of all of our accounting policies. In many cases, the accounting treatment of a particular transaction is specifically dictated by accounting principles, generally accepted in the United States of America, with no need for management s judgment in their application. There are also areas in which management s judgment in selecting any viable alternative would not produce a materially different result. See our audited financial statements (included in our SB-2 filing) and notes thereto which contain accounting policies and other disclosures required by accounting principles, generally accepted in the United States of America.

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RESULTS OF OPERATIONS FOR THE THREE MONTHS ENDED JUNE 30, 2004 AS COMPARED WITH THE THREE MONTHS ENDED JUNE 30, 2003

Revenues were \$995,075 for the three months ended June 30, 2004 as compared with \$818,622 for the three months ended June 30, 2003, representing an increase of \$176,453, or 21.6%. The increase in sales is primarily attributable to increased income from contracts and grants as well as increased sales of our HIV product. The increases were partially offset by reduced pregnancy test kit sales. A substantial portion of the grant-related income will recur for the balance

of 2004 and in 2005.

Cost of goods sold for the three months ended June 30, 2004 was \$647,198, or 65.0% of revenues, as compared to \$549,043, or 67.1% of revenues, for the three months ended June 30, 2003. The resulting increase in gross margin is primarily attributable to approximately \$248,000 of contract and grant income received during the three months ended June 30, 2004 as compared with approximately \$98,000 of contract and grant income during the three-month period ended June 30, 2003, together with income associated with the technology transfer and supply agreement with Bio-Manguinhos that continued during this period, both of which are higher margin items. Gross margin in the three-month period ended June 30, 2003 was negatively impacted by a combination of a lower margin product sales mix and production losses.

Research and development expenses for the three months ended June 30, 2004 were \$147,263, or 14.8% of revenues, compared with \$76,298, or 9.3% of revenues, for the three months ended June 30, 2003. The increase in expense and associated percentage of revenues is due primarily to increased salaries and wages and related costs of each of the members of the R&D group since the June 30, 2003 period as new grants and development contracts were awarded and also due to the addition of an R&D Technician hired in late 2003 for the purpose of fulfilling obligations under grants from the National Institute of Health and World Health Organization as well as other product development contracts.

Selling, general and administrative expense increased \$369,115 to \$642,671 in the three months ended June 30, 2004 compared with the same period in 2003. This increase is primarily attributable to \$281,200 of non-cash expenses reflecting the amortized intrinsic value (the market price at the time of the grant for stock, which is reduced by the exercise price to determine intrinsic value for options) of common stock and options issued to key employees and \$79,750 of non-cash expenses reflecting the amortized fair value of common stock and options to purchase common stock that were issued to consultants. Also driving this increase were \$25,500 in cash salary increases to key employees as well as increased legal and accounting expenses of \$46,700 relating to the merger. In addition, the increase was reduced by \$210,000 attributable to settlements of old outstanding payables due that were made during the three months ended June 30, 2004. The balance of the increase or \$145,965, is primarily attributable to increased travel costs related to HIV rapid test marketing efforts, increased costs for marketing consultants, and increased commissions relating to the Bio-Manguinhos contract.

Clinical & Regulatory Affairs, which totaled \$216,570 for the three months ended June 30, 2004, is a new item on our statement of operations. This cost category includes costs incurred for regulatory approvals, clinical studies, product evaluations and registrations. These costs are expected to increase in the third quarter of 2004 when the bulk of the HIV rapid test clinical studies will be completed and then return to substantially reduced levels in the fourth quarter.

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The status of each of our major research and development projects is as follows:

Project	Rapid Test for Mad Cow Disease		
	We are waiting for technology transfer from Prionics AG in order to begin production scale-up, validation and regulatory submission		
Nature, timing and estimated	The timing of production scale-up and validation is anticipated to be approximately three to six months from		

	the date of the completion of the technology transfer. Thereafter, we will incur costs to establish the production capacity required for this product, which we presently anticipate to be approximately \$100,000.
Anticipated completion date	Not Known
development on schedule, and the consequences to	We are relying on technology developed by Prionics and so there is a risk that the product validation will encounter difficulties that at present are not known or foreseeable. The risks associated with the product involve regulatory and technology risks.
E	It is not known or estimable when net cash inflows from
-	this project will commence due to the uncertainties
	associated with the completion of the product, regulatory
	submissions, and the nature and timing of Prionics
	distribution network

Project	Dental Bacteria Test				
Current status	During the balance of 2004, we expect to complete Phase 2 of the Project Plan (Optimization of Test) and move into Phase 3 (Scale Up of Production and validation).				
Nature, timing and estimated costs of the efforts necessary to complete	In April 2004, we received 80% of the Phase 2 project cost of \$65,000, or \$52,000, and this reflects the estimate of the costs anticipated to be incurred to complete Phase 2 during a three to five month period. We expect to complete Phase 2 in September. Upon completion of Phase 2 we will provide a report to Ivoclar-Vivadent. If the report is acceptable, we will receive the \$13,000 balance from Phase 2 and 80% of the Phase III project cost, also \$65,000. Phase 3 is also estimated to take three to five months to complete				
Anticipated completion date	Assuming the project plan is achieved, the anticipated completion date of the product is first quarter 2005. It is not known at this time how long it will take to obtain regulatory approvals in the US, Europe, Japan and other potential markets				
Risks and uncertainties associated with completing development on schedule, and the consequences to operations, financial position and liquidity if not completed timely	Technical challenges remain that must be overcome in order for this product to meet the performance specifications that Ivoclar Vivadent has set forth in the Agreement. If we do not achieve the performance specifications, the product will not be completed.				
Timing of commencement of expected material net cash inflows	It is not known or estimable when net cash inflows from this project will commence due to the uncertainties associated with the completion of the product, regulatory submissions, and the nature and timing of Ivoclar-Vivadent s distribution network and strategy.				

Project	Rapid Test for the detection of antibodies to active pulmonary tuberculosis in non-human primate whole blood samples				
Current status	Product validation completed				
Nature, timing and estimated costs of the efforts necessary to complete	Not known				
Anticipated completion date	Not known				
Risks and uncertainties associated with completing development on schedule, and the consequences to operations, financial position and liquidity if not completed timely	The requirements for clinical testing and the outcomes of such clinical testing can not be known at this time, and this information poses substantial risk and uncertainty as to whether or when this product will contribute to the operations, financial position and liquidity.				
Timing of commencement of expected material net cash inflows	It is not known or estimable when net cash inflows from this project will commence due to the uncertainties associated with the completion of the product, regulatory submissions, and without further progress on a distribution strategy.				

The other tuberculosis products that are under development, as well as the combination HIV/tuberculosis rapid test and the New Generation Rapid HIV Test, are either at an early stage of research and development, have a limited amount of resources being applied, and/or involve a substantial amount of uncertainty as to the completion of the product. There is no expectation of material revenues in 2004 and 2005 from any of these products.

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RESULTS OF OPERATIONS FOR THE SIX MONTHS ENDED JUNE 30, 2004 AS COMPARED WITH THE SIX MONTHS ENDED JUNE 30, 2003

Revenues were \$1,580,377 for the six months ended June 30, 2004 as compared with \$1,538,698 for the six months ended June 30, 2003, representing an increase of \$41,679 or 2.7%. The increase in sales is primarily attributable to increased income from contracts and grants as well as increased sales of our HIV product. The increases were partially offset by reduced pregnancy test kit sales. A substantial portion of the grant-related income will recur for the balance of 2004 and in 2005.

Cost of goods sold for the six months ended June 30, 2004 was \$1,091,010, or 69.0% of revenues, as compared with \$1,174,808, or 76.3% of revenues, for the six months ended June 30, 2003. The resulting increase in gross margin is primarily attributable to approximately \$339,000 of contract and grant income received during the six months ended June 30, 2004 as compared with approximately \$98,000 of contract and grant income during the six months ended June 30, 2003, together with income associated with the technology transfer and supply agreement with Bio-Manguinhos that commenced during this period, both of which are higher margin items. Gross margin in the six month period ended June 30, 2003 was negatively impacted by a combination of a lower margin product sales mix and production losses.

Research and development expenses for the six months ended June 30, 2004 were \$269,811, or 17.1% of revenues, compared with \$161,560, or 10.5% of revenues, for the six months ended June 30, 2003. The increase in expense and associated percentage of revenues is due primarily to increased salaries and wages and related costs of each of the members of the research and development group subsequent to June 30, 2003, as new grants and development contracts were awarded and also due to the addition of an R&D Technician hired in late 2003 for the purpose of fulfilling obligations under grants from the National Institute of Health and World Health Organization as well as other product development contracts.

Selling, general and administrative expense increased \$447,733 to \$1,022,650 for the first six months of 2004 compared with the same period in 2003. This increase is primarily attributable to \$345,400 of non-cash expenses reflecting the amortized intrinsic value (the market price at the time of the grant for common stock, which is reduced by the exercise price to determine intrinsic value for options) of common stock and options issued to key employees and \$79,750 of non-cash expenses reflecting the amortized fair value of common stock and options to purchase common stock that were issued to consultants. Also driving this increase were \$25,500 in cash salary increases to key employees, and increased legal and accounting expenses of \$63,100 relating to the merger. In addition \$210,000 of the increase was attributable to settlements of old outstanding payables due that were made during the six months ended June 30, 2004. The balance of the increase, or \$143,983 is primarily attributable to increased travel costs related to HIV rapid test marketing efforts, increased costs for marketing consultants, and increased commissions relating to the Bio-Manguinhos contract

Clinical & Regulatory Affairs, which totaled \$229,635 for the six months ended June 30, 2004, is a new item on our statement of operations. This cost category includes costs incurred for regulatory approvals, clinical studies, product evaluations and registrations. These costs are expected to increase in the 3rd quarter of 2004 when the bulk of the HIV rapid test clinical studies will be completed and then return to substantially reduced levels in the fourth quarter.

LIQUIDITY AND CAPITAL RESOURCES

We began to improve our liquidity and capital resources position during the first quarter of 2004 as a result of the completion of a \$1,000,000 convertible bridge note offering in March in anticipation of our merger with Trading Solutions.com. As a result of the completion of the merger, \$328,000 of the \$1,000,000 of convertible bridge notes was converted into 826,741 shares of common stock at \$.40 per share, and the balance of \$672,000 was converted into 33.83682 shares of series A preferred stock. Simultaneous to that conversion, 73.33330 shares of series A preferred stock were issued for \$2,200,000 in cash, and an additional \$1,332,292 of debt to our note holders was converted into 44.40972 additional shares of the series A preferred stock. Together, before accounting for costs and expenses associated with these transactions, these events resulted in new equity capital of approximately \$4,532,292 since December 31, 2003.

During the six months ended June 30, 2004, we used \$1,145,593 cash in operations, \$47,337 to acquire fixed assets, \$29,887 to fund capital lease payments, and \$67,434 to fund the bank overdraft existing as of December 31, 2003. The cash was funded primarily from the \$1,000,000 of convertible notes issued during March, the accrual of interest on all debt due for both term debt and convertible debt, discounts from the settlement of accounts payable of \$210,000, the sale of \$2,200,000 of series A preferred stock and the funding of \$300,844 of compensation expense by the issuance of common stock and options to some of our key employees.

Accordingly, we had a working capital deficiency of \$730,738 at December 31, 2003 and a working capital surplus of \$1,974,635 at June 30, 2004. This increase in working capital is due to the completion of the convertible note offering as well as the completion of the series A offering and the capitalization of employee stock and options being amortized. Our current assets increased 286.2% to \$2,983,819 at June 30, 2004 from \$772,680 at December 31, 2003. This increase is also primarily attributable to the completion of the convertible note offering in March, the series A preferred offering in May and the capitalization of employee stock and options being amortized.

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Compared with corresponding balances at December 31, 2003, current liabilities as of June 30, 2004 decreased 32.9% to \$1,009,184, long term liabilities decreased 62.6% to \$763,488, and total liabilities decreased 50% to \$1,772,672. The decrease in long term liabilities is attributable to the completion of the merger where \$1,332,292 of debt was converted into series A preferred offering.

The following table lists the future payments required on our debt and any other contractual obligations as of June 30, 2004:

		(Freater than		
OBLIGATIONS	Total	1 Year	1-3 Years	4-5 Years	5 Years
Long Term Debt(1)	\$ 673,351	-	-	- \$	673,351
Capital Leases (2)	\$ 139,787 \$	49,650 \$	74,764 \$	15,373	-
Operating Leases	\$ 76,016 \$	76,016	-	-	-
Other Long Term Obligations(3)	\$ 45,000 \$	12,000 \$	33,000	-	-
Total Obligations	\$ 934,154 \$	137,666 \$	107,764 \$	15,373 \$	673,351

- (1) This represents existing debt and accrued interest which if not paid by the end of 2004 must convert into series A preferred stock. It is currently expected that the Company will not be able to repay this debt and it will be converted.
 - (2) This represents capital leases used to purchase capital equipment.
 - (3) This represents contractual obligations for licenses.

CHEMBIO S PLAN OF OPERATIONS FOR THE NEXT TWELVE MONTHS

Clinical trials for our HIV rapid tests have begun, and we believe that they will be completed during the fourth quarter of 2004. The trials will be used to support a pre-marketing approval application to the FDA. Simultaneous with this regulatory approval process, we are actively involved in increasing distribution of our HIV rapid tests through a variety of distribution channels and partners. We have engaged Bio-Equity Partners, a company that specializes in helping small biotech firms in the HIV field, to assist in these efforts. Several other marketing and business development efforts are ongoing that are aimed toward participating in the various initiatives publicly announced for the implementation of voluntary counseling and testing (VCT), pre-natal testing for mother to child transmission, and other programs that are taking root globally. A significant portion of the capital currently available to us is being used to obtain US regulatory approval of our HIV rapid tests and to provide the marketing and business development resources to achieve wider distribution of our products in the global market.

We also are working on completing the development of the mad cow, dental bacteria and tuberculosis rapid tests that are under product development agreements and/or research grants. We believe that these products will begin to produce revenues in 2005.

Our cash requirements depend on numerous factors, including product development activities, penetration of the direct sales market, market acceptance of new products, and effective management of inventory levels in response to sales forecasts. We expect to devote capital resources to continue our product development, expand manufacturing capacity and continue research and development activities. We will examine other growth opportunities, including strategic alliances, and we expect any such activities will be funded from existing cash and cash equivalents, as well

as issuance of additional equity or additional borrowings, subject to market and other conditions. We believe that our current cash balances, and cash generated from future operations, will be sufficient to fund operations for the next twelve months. If cash generated from operations is not sufficient to satisfy our working capital and capital expenditure requirements, we may be required to sell additional equity or obtain additional credit facilities. We cannot be certain that this financing will be available or that we will be able to complete financing on satisfactory terms, if at all.

Notwithstanding the numerous factors that our cash requirements depend on, and the uncertainties associated with each of the major revenue opportunities that we have, we believe that our plan of operation can build long term value if we are able to demonstrate clear progress toward our objectives, particularly FDA approval of our HIV rapid tests. We expect to complete the clinical testing portion related to our HIV rapid test FDA submission in the fourth quarter of this year, and we believe that if the results of these tests are at the level required for FDA approval, these results will provide strong evidence of our progress. We also have other important international evaluations pending of our HIV rapid tests which, if favorable, would result in additional independent proof of the quality of our products and the accretion of long term value to our stockholders. We believe that our international sales efforts for our HIV tests will succeed based upon the market need, the performance of our products, their competitive pricing, the distribution and marketing channels we are pursuing, and the quality of our professional staff. Based upon our agreement with Bio-Manguinhos alone, we expect to receive orders for our HIV rapid tests that will more than offset the net cash flow that we will no longer have from the private label manufacturing of pregnancy tests.

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Progress in our other major product groups, particularly those for the mad cow disease and dental bacteria test, as well as the non-human primate tuberculosis test, are also likely to lend credibility to our plan to become profitable. In this regard, we have hired a director of regulatory affairs who will be directing the regulatory activities related to the veterinary products (e.g., mad cow and non-human primate tuberculosis) as well as the dental bacteria test, provided that each of the projects progresses to the point where a regulatory submission is appropriate. This individual will eventually absorb some of the responsibilities that have been performed by our outside regulatory consultant. We have also added one person to our solutions manufacturing group and have hired an assembly supervisor. These three positions will add at least \$250,000 in annual costs. We have not decided at this juncture whether to add to our research and development team, though it is under consideration. If such a position is added, the annual cost would be at least \$100,000.

If we are not successful in obtaining additional financing, then we would not be able to pursue our current plan of operation.

ITEM 3. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

As of the end of the periods covered by this report, we have evaluated, under the supervision and with the participation of management, including our chief executive officer and the chief financial officer, the effectiveness of the design and operation of our "disclosure controls and procedures" (as defined in Security Exchange Act of 1934, Rules 13a - 15(e) and 15d - 15(e)). Based on this evaluation our management, including our chief executive officer and chief financial officer, have concluded that as of the date of the evaluation our disclosure controls and procedures were effective to ensure that all material information required to be filed in this report has been made known to them.

Changes In Internal Controls Over Financial Reporting

There have been no changes in internal controls over financial reporting that occurred during the most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

PART II.

ITEM 1. LEGAL PROCEEDINGS

Information concerning our legal proceedings is included in and hereby incorporated by reference from, our Amendment No. 1 to Form SB-2 under the heading "LEGAL PROCEEDINGS" and also in Note 7 to the accompanying financial statements.

ITEM 2. CHANGES IN SECURITIES

Information concerning our recent sales of unregistered securities is included in and hereby incorporated by reference from, our Amendment No. 1 to Form SB-2 under the heading "RECENT SALES OF UNREGISTERED SECURITIES" and also in Note 6 to the accompanying financial statements.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None

ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS

On April 8, 2004, we filed a Definitive Information Statement on Schedule 14C, to inform our stockholders that a holder of 882,352 shares of common stock, or 82.9% of the then-issued and outstanding common stock, took the following actions by written consent:

- a. Approval of an amendment to our articles of incorporation to increase the authorized number of shares of common stock from 20,000,000 to 50,000,000;
- b. Authorization of 10,000,000 shares of undesignated preferred stock, par value \$0.01 per share; and
- c. Approval of the change of our name to Chembio Diagnostics, Inc.

The Definitive Information Statement was mailed to our stockholders of record on or about April 10, 2004.

ITEM 5. OTHER INFORMATION

None

ITEM 6. EXHIBITS AND REPORTS ON FORM 8-K.

- (a) Exhibits.
- 3.1(1) Articles of Incorporation.
- 3.2(1) Certificate of Amendment to Articles of Incorporation.
- 3.3(1) Bylaws.
- 3.4(2) Amendment No. 1 to Bylaws dated May 3, 2004.
- 31.1 Certifications of the Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32.1 Certifications of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 99.1 Amendment No. 1 to Form SB-2 (only the portions incorporated by reference into this Form 10-QSB are included in Exhibit 99.1)
- (1) Incorporated by reference to the Registrant's registration statement on Form SB-2 filed with the Commission on August 23, 1999.
- (2) Incorporated by reference to the Registrant's Current Report on Form 8-K filed with the Commission on May 14, 2004.
- (b) Reports on Form 8-K.
- 1. On April 6, 2004, the Company filed a Form 8-K to announce that it had entered into an Agreement and Plan of Merger with Chembio Diagnostic Systems, Inc.
 - 2. On April 8, 2004, the Company filed an amendment to the Form 8-K filed on April 6, 2004.
- 3. On May 14, 2004, the Company filed a Form 8-K announcing the closing of the merger with Chembio Diagnostic Systems, Inc. and describing the terms thereof.
 - 4. On June 4, 2004, the Company filed a Form 8-K to report a change in certifying accountants.
 - 5. On June 6, 2004, the Company filed an amendment to its Form 8-K dated April 13, 2004.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Chembio Diagnostics, Inc.

Date: August 16, 2004

Lawrence A. Siebert Chief Executive Officer By: -/s/ Lawrence A. Siebert

Date: August 16, 2004

Richard J. Larkin Chief Financial Officer By: -/s / Richard J. Larkin