

2018 Annual Report to Shareholders

and Form 10-K



# We are the only company focused exclusively on IV therapy across the continuum of care

For more than three decades, we have been dedicated to a singular purpose—improving the safety and efficiency of IV therapy. With the acquisition of Hospira Infusion Systems from Pfizer in 2017, we became the only company to focus exclusively on IV therapy across the continuum of care.



## **IV Solutions**

A complete line of IV solutions including sterile solutions, irrigation solutions, and certain nutritionals.



## **IV Systems**

Industry-leading large volume, ambulatory, and PCA pumps, dedicated IV sets, IV medication safety software, and field service.



#### **IV** Consumables

Clinically proven needlefree IV connectors, gravity sets, closed system transfer devices (CSTDs), IV catheters, and disinfectant IV caps.



#### Critical Care

Innovative hemodynamic monitoring systems for patient fluid assessment, advanced sensor catheters, and pressure transducers.

#### Dear Stockholder:

As we previewed in our 2017 Annual Report, 2018 was a year filled with challenges due to the integration activities from our acquisition of Hospira Infusion Systems (HIS), and we indeed were somewhat less predictable in our quarterly comparisons versus prior periods. However, over the entirety of the year, ICU Medical continued to execute well and improved our customer footprint, revenues, profitability, and cash position—, and took the final steps to complete the HIS integration. We now operate as one company, mainly on a single IT platform, with an integrated commercial team and unified manufacturing and supply chain platforms, and have completely exited our transition service agreements from Pfizer.

From an income statement perspective, we had significant profitability improvement in 2018 as a result of our integration work and some continued industry manufacturing shortages—primarily in the first half of 2018—and finished the year with almost \$290M in adjusted EBITDA. We closed the year with approximately \$384 million in cash and no debt and continue to believe that we will shortly recoup all the cash we spent on the acquisition of HIS.

We continue to believe each of our product lines has a robust competitive positioning. The events over the last few years, which led to industry shortage in IV solutions in particular, as well as the broader consolidation of medical devices suppliers, has helped to illustrate our value to the healthcare system. At a high level, we bring the category focus and customer responsiveness that the smaller industry player has to do, combined with a commitment to innovation.

The HIS acquisition allowed us to significantly strengthen our IV Consumables product line—where ICU Medical was the manufacturer for HIS historically—and where we are one of the world's largest producers of these items. All parts of our consumables business grew in 2018, with our closed systems transfer devices (CSTDs) used for oncology chemotherapy compounding and administration leading the way with double-digit growth year over year. We continue to believe we have all the technology and manufacturing processes to succeed, and the acquisition offered the benefits of vertical integration to our customers.

Our IV Solutions product line has shown its value to ICU Medical and the market as a whole by being a reliable supplier and key industry participant, with our excess capacity helping alleviate market stresses during recent IV solutions shortages. While the business declined 11% year over year, market volatility caused by the shortage led to a huge swing between the first half of the year when the shortage was most acute to the second half where competitive supply was largely restored and our underlying demand softened slightly.

Our IV pump business, which was perhaps the most disadvantaged of the product lines we acquired from Hospira but incredibly important to "pre-deal ICU Medical," has been refocused. In 2018, we slowed the rate of share erosion and saw our Plum™ 360 infusion pump be recognized as the top performing IV smart pump by KLAS Research, a leading global healthcare research firm, based on feedback from thousands of healthcare providers throughout the United States and Canada. We continue to work hard to improving our positioning in all three product lines.

As always, we continue to be deeply focused on two primary goals. The first goal is serving our customers well with increasing innovation and competitive value. We have been investing substantially in R&D since the acquisition and believe we will have new products to broaden our offering over the medium-term. The second goal is a continued focusing on free cash flow generation. The cash integration costs from the transaction have been substantial and will continue to a much lesser degree into 2019. We are focused on finishing these expenditures and making incremental capital investments to fund expansion and vertical integration opportunities in 2019, and post the items we see strong cash generation from our businesses.

Fiscal 2019 will be a year that looks skewed, with a difficult first half comparison due to the IV Solutions shortages that continued into early 2018. This is not very relevant to us on an aggregate level in the short-term. Our focus is first on our individual segments being best positioned in their respective areas, second on operational stability and being healthy from an integration perspective, and third on exploring longer-term strategies such as capital deployment to continue value creation for our shareholders. We have an experienced team that has worked together for many years, and we have been selectively adding new talented team members that share our values and bring unique domain expertise.

We appreciate all the continued support from shareholders.

Respectfully,

Vivek Jain Chief Executive Officer and Chairman

# **UNITED STATES**

# **SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

# **FORM 10-K**

☑ ANNUAL REPORT PURSUANT TO SECTION 13 ()	OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ende	d December 31, 2018 or
☐ TRANSITION REPORT PURSUANT TO SECTION 1	3 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 193-
For the transition p	eriod from to
Commission Fil	e No. 001-34634
ICU MEDI	CAL INC
	as specified in its charter)
Delaware	33-0022692
(State or other jurisdiction of	(I.R.S. Employer
incorporation or organization)	Identification No.)
951 Calle Amanecer	
San Clemente, California	92673
(Address of principal executive offices)	(Zip Code)
Registrant's Telephone Number, In	cluding Area Code: (949) 366-2183
Securities registered pursuant to Section 12(b) of the Act:	
Title of each class	Name of each exchange on which registered
Common stock, par value \$0.10 per share	The NASDAQ Stock Market LLC (Global Select Market)
Securities Registered Pursuant to Section 12(g) of the Act: None	,
Indicate by check mark if the registrant is a well-known seasoned	l issuer, as defined in Rule 405 of the Securities Act. 🗷 Yes 🗖 No
Indicate by check mark if the registrant is not required to file reported by No	orts pursuant to Section 13 or Section 15(d) of the Exchange Act. □
Indicate by check mark whether registrant: (1) has filed all report Exchange Act of 1934 during the preceding 12 months (or for such shas been subject to such filing requirements for the past 90 days.	norter period that registrant was required to file such reports), and (2
Indicate by check mark whether the registrant has submitted electron pursuant to Rule 405 of Regulation S-T ( $\S232.405$ of this chapter) duregistrant was required to submit such files). Yes $\boxtimes$ No $\square$	
Indicate by check mark if disclosure of delinquent filers pursuant contained herein, and will not be contained, to the best of registrant's incorporated by reference in Part III of this Form 10-K or any amenda	knowledge, in definitive proxy or information statements
Indicate by check mark whether the registrant is a large accelerate reporting company. See definition of "large accelerated filer", "accelerate accelerated (Check one):	
Large accelerated filer ⊠	Accelerated filer □
Non-accelerated filer □	Small reporting company □ Emerging growth company □

con	If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for implying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.
	Indicated by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). $\square$ Yes $\square$ No
reg	The aggregate market value of the voting stock held by non-affiliates of registrant as of June 30, 2018, the last business day of istrant's most recently completed second fiscal quarter, was \$5,575,024,829*.
	The number of shares outstanding of registrant's common stock, \$.10 par value, as of January 31, 2019 was 20,498,949.

# DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Proxy Statement for registrant's 2019 Annual Meeting of Stockholders filed or to be filed pursuant to Regulation 14A within 120 days following registrant's fiscal year ended December 31, 2018, are incorporated by reference into Part III of this Report.

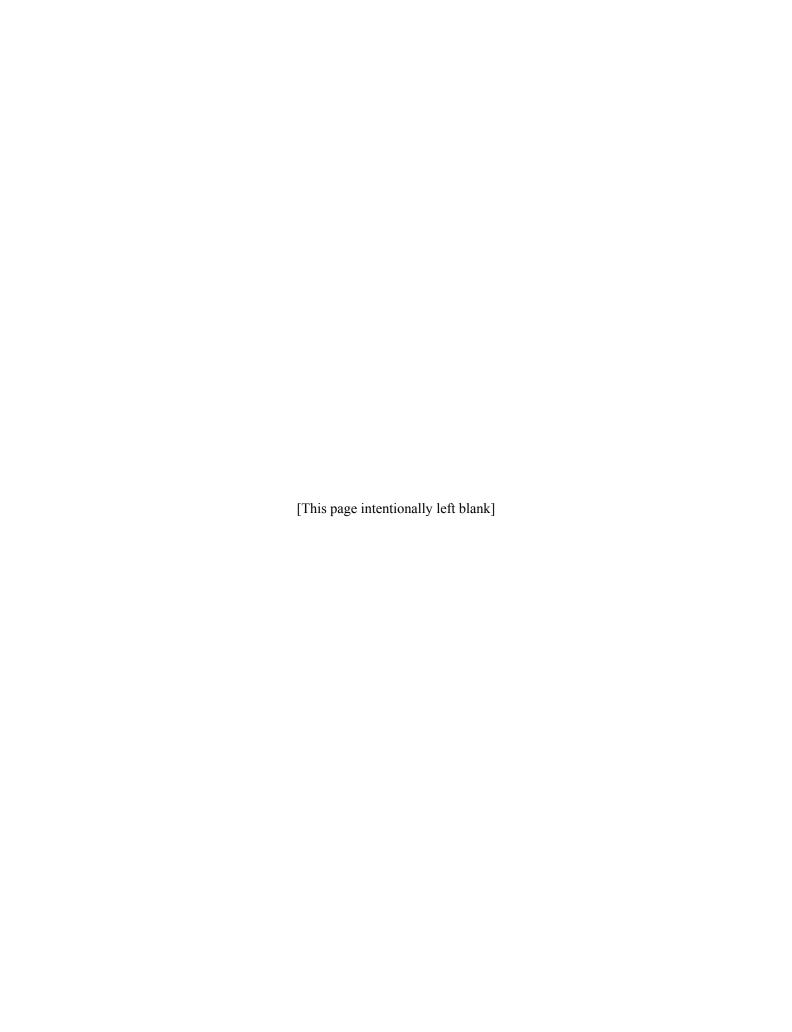
<sup>\*</sup> Without acknowledging that any person other than Dr. George A. Lopez is an affiliate, all directors and executive officers have been included as affiliates solely for purposes of this computation.

## ICU Medical, Inc. Form 10-K

# For the Year Ended December 31, 2018

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#### PART I

#### **ITEM 1. BUSINESS**

First person pronouns used in this Report, such as "we," "us," and "our," refer to ICU Medical, Inc. ("ICU") and its subsidiaries unless context requires otherwise.

#### **Company Background**

ICU was founded in 1984 and our initial public offering was in 1992. Our headquarters are in San Clemente, California. In 1993, we launched the Clave<sup>TM</sup>, an innovative one-piece needlefree intravenous ("IV") connection device. Since the late 1990's, we have expanded our product offerings by introducing internally developed products and systems. Key developments have included the MicroClave Clear<sup>TM</sup> connector as an update to the Clave, Tego<sup>TM</sup> needlefree connector for use in hemodialysis, products for handling hazardous drugs including the ChemoClave<sup>TM</sup> and ChemoLock<sup>TM</sup> CSTDs ("closed-system transfer devices", the Diana<sup>TM</sup> hazardous drug compounding system, and the Neutron®, a catheter patency device.

In October 2015, we acquired Excelsior Medical Corporation's SwabCap® disinfecting cap for needlefree IV connectors to enhance our direct and OEM infusion therapy product offerings and to open new customer opportunities globally.

In February 2017, we acquired Pfizer Inc.'s ("Pfizer") Hospira Infusion Systems ("HIS") business. The HIS acquisition complements our legacy non-dedicated infusion sets and oncology business by expanding our product portfolio to include a complete intravenous infusion therapy product-line from IV solutions to IV pumps to non-dedicated infusion sets.

#### General Overview of Business

We develop, manufacture and sell innovative medical products used in infusion therapy and critical care applications. Our product portfolio includes IV smart pumps, sets, connectors, closed system transfer devices for hazardous drugs, sterile IV solutions, cardiac monitoring systems, along with pain management and safety software technology designed to help meet clinical, safety and workflow goals.

Our primary customers are acute care hospitals, wholesalers, ambulatory clinics and alternate site facilities, such as clinics, home health care providers and long-term care facilities. We sell our products in more than 90 countries throughout the world.

#### **Products**

Our primary product offerings are listed below, which we present in four product lines as follows:

#### Infusion Consumables

Infusion therapy sets, used in hospitals and ambulatory clinics, consist of a tube running from a bottle or plastic bag containing a solution to a catheter inserted in a patient's vein, that may or may not be used with an IV pump. Our primary IV Consumable products are:

- Clave<sup>TM</sup> needlefree products, including the MicroClave, MicroClave Clear, and NanoClave<sup>TM</sup> brand of connectors, accessories, extension and administration sets used for the administration of IV fluids and medications and the Neutron catheter patency device, used to help maintain patency of central venous catheters;
- SwabCap disinfecting cap, used to protect and disinfect any needlefree connector, including competitive brands of connectors;
- Tego hemodialysis connector used to cap and protect hemodialysis central venous catheter hubs; and
- *NovaCath*<sup>TM</sup> *and SuperCath*<sup>TM</sup> peripheral IV catheters(PIV).

Closed System Transfer Devices (CSTD) and hazardous drug compounding systems are used to prepare and deliver hazardous IV medications such as those used in chemotherapy, which, if released, can have harmful effects to the healthcare worker and environment. Our products are:

- *ChemoLock*, is a pharmacy-preferred CSTD used for the preparation and administration of hazardous drugs. ChemoLock limits the escape of hazardous drug or vapor concentrations, blocks the transfer of environmental contaminants into the system, and eliminates the risk of needlestick injury;
- ChemoClave, is an ISO standard and universally compatible CSTD used for the preparation and administration of hazardous drugs. ChemoClave utilizes standard ISO luer locking connections, making it compatible with all brands of needlefree connectors and pump delivery systems. ChemoClave also limits the escape of hazardous drug or vapor concentrations, blocks the transfer of environmental contaminants into the system, and eliminates the risk of needlestick injury; and
- Diana hazardous drug compounding system is an automated sterile compounding system that incorporates
  ChemoClave and ChemoLock CSTD consumables and IV workflow technology for the accurate, safe, and
  efficient preparation of hazardous drugs. It is a user-controlled automated system that provides repeatable
  accuracy of drug mixes and minimizes clinician exposure to hazardous drugs while helping to maintain the
  sterility of the drugs being mixed.

The preparation of hazardous drugs typically takes place in a pharmacy location where drugs are removed from vials and prepared for delivery to a patient. Those prepared drugs are then transferred to a nursing unit where the chemotherapy is administered via an infusion pump set to a patient. Components of the ChemoClave and ChemoLock product lines are used both in pharmacies and on the nursing floors for the preparation and administration of hazardous drugs.

#### IV Solutions

We provide a broad portfolio of IV solutions to meet our customers' clinical needs, providing a consistent supply of IV solutions, irrigation, and nutritionals to help provide safe and effective patient care. Our primary IV Solutions products are:

#### IV Therapy and Diluents:

• Including Sodium Chloride, Dextrose, Balanced Electrolyte Solutions, Lactated Ringer's, Ringer's, Mannitol, Sodium Chloride/Dextrose, Sterile Water

#### *Irrigation/Urologics:*

 Including Sodium Chloride Irrigation, Sterile Water Irrigation, Physiologic Solutions, Ringer's Irrigation, Ringer's Irrigation, Acetic Acid Irrigation, Glycine Irrigation, Sorbitol-Mannitol Irrigation, Flexible Containers and Pour Bottle Options, 250 mL

#### Infusion Systems

We offer a wide range of infusion pumps, dedicated IV sets and software. Our primary Infusion System products are dedicated IV sets and the following:

#### Infusion Pump Hardware:

- *Plum* 360<sup>TM</sup>: The Plum 360<sup>TM</sup> infusion pump is an ICU Medical MedNet<sup>TM</sup> ready large volume infusion pump with an extensive drug library and wireless capability. Plum 360 was named the 2018 Best in KLAS winner as top-performing IV smart pump and is the first medical device to be awarded UL Cybersecurity Assurance Program Certification; and
- *LifeCare PCA*<sup>TM</sup>: The LifeCare PCA infusion pump is an ICU Medical MedNet<sup>TM</sup> ready patient-controlled analgesia pump ("PCA"), providing complete IV-EHR interoperability since 2016.

#### IV Mediation Safety Software:

• *ICU Medical MedNet*<sup>TM</sup>: ICU Medical MedNet is an enterprise-class medication management platform for any sized healthcare system that can help reduce medication errors, improve quality of care, streamline workflows and maximize revenue capture. ICU Medical MedNet connects our industry-leading smart pumps

to a hospital's Electronic Health Records (EHR), asset tracking systems, and alarm notification platforms with the largest array of integration partners.

#### Professional Services:

In addition to the products above, our teams of clinical, information technology, and professional services
experts work with customers to develop and deliver safe and efficient infusion systems, providing customized
and personalized configuration, implementation, and data analytics services to complement our infusion
hardware and software.

#### Critical Care

Our critical care products help clinicians get accurate real-time access to patients' hemodynamic and cardiac status with an extensive portfolio of monitoring systems and advanced sensors & catheters. Measurements provided by our systems help clinicians determine how well the heart is pumping blood and how efficiently oxygen from the blood is being used by the tissues. Our primary Critical Care products are:

- Cogent<sup>™</sup> 2-in-1 hemodynamic monitoring system
- CardioFlo<sup>TM</sup> hemodynamic monitoring system
- TDQ<sup>™</sup> and OptiQ<sup>™</sup> cardiac output monitoring catheters
- Transpac<sup>TM</sup> blood pressure transducers
- SafeSet<sup>™</sup> closed blood sampling and conservation system

Financial information relating to our reporting segment and primary product lines is set forth in Part I, Item 6. "Selected Financial Data" and Item 7. "Management Discussion and Analysis of Financial Condition and Results of Operations" in this Annual Report on Form 10-K, and is incorporated herein by reference.

#### **Recent Significant Acquisitions**

On February 3, 2017, we completed the acquisition of Pfizer's HIS business, a leading global provider of IV infusion therapy products to hospitals and alternate site providers, such as clinics, home health care providers and long-term care facilities. Our acquisition of the HIS business was strategic and provides us with an increase in scale and product portfolio that we believe will result in a stronger competitive position within the industry. We believe the HIS business acquisition was the natural evolution for us based on a long-term successful and productive partnership with HIS for over 20 years.

#### Manufacturing

As of December 31, 2018, we operate four primary manufacturing facilities globally, which are detailed in Part I, Item 2 of this report. We operate four main service centers globally. We also rely on certain outside manufacturers for certain product lines in Infusion Systems and IV Solutions.

Our four primary manufacturing sites are:

- La Aurora de Heredia, Costa Rica, which manufactures most of our infusion pumps and dedicated disposables, as well as a portion of our non-dedicated infusion consumables products;
- Ensenada, Mexico, which manufactures infusion consumables products;
- Salt Lake City, Utah, which produces primarily our proprietary brands of connector and CSTD components, and sends those products to Costa Rica or Mexico for finished goods assembly; and
- Austin, Texas, which produces our IV Solutions products.

Additionally, we leverage a long-term supply agreement with Pfizer (described below) to provide additional IV Solution products to us.

We also assemble compounders in our leased facility in Ludenscheid, Germany and Salt Lake City, Utah.

During 2017, we closed our manufacturing facility in San Cristobal, Dominican Republic, which was part of the HIS acquisition, and transferred the assets and the production of Infusion Consumables to our plants in Costa Rica and Mexico.

We have four main regional device service centers in San Jose, California; Sligo, Ireland; San Laurent, Quebec, Canada; and Rydalmere, Australia.

As part of our 2017 HIS business acquisition, we entered into two Manufacturing and Supply Agreements ("MSAs") under which, (i) Pfizer manufactures and supplies us with certain agreed upon products for an initial five-year term with a one-time two-year option to extend and (ii) we manufacture and supply Pfizer certain agreed upon products for a term of five or ten years depending on the product, with a one-time two-year option to extend. The initial supply price will be annually updated and is in full consideration for all costs associated with the manufacture, documentation, packaging and certification of the products.

We purchase many of the components and raw materials used in manufacturing our products from numerous suppliers in various countries. Certain components and raw materials are available only from a sole supplier. We work closely with our suppliers to ensure continuity of supply while maintaining high quality and reliability. We have generally been able to obtain adequate supplies of such raw materials and components.

#### Sales, Marketing and Administration

We ship around the world with the majority of our sales denominated in U.S. dollars, Euro and Canadian dollars. We are not dependent on any single customer and no single customer accounted for 10% or more of our net sales in 2018.

#### **Distribution**

Our products are marketed to medical product manufacturers, independent distributors and directly to end users.

The U.S. distribution of solutions, IV sets and accessories is supported by a network of three owned distribution centers acquired in the HIS business acquisition, which include King of Prussia, Pennsylvania; Los Angeles, California; and Dallas, Texas. We also acquired the contracts to a number of public warehouses as part of the HIS acquisition.

Internationally, we manage our operations through the Netherlands, which utilizes international regional hubs and we also manage operations through independent distributors.

#### **Government Regulation**

Our products and operations are subject to extensive and rigorous regulation by the Food and Drug Administration ("FDA") and other federal, state and local authorities, as well as foreign regulatory authorities. The FDA regulates, among other things, the research, development, testing, manufacturing, approval, labeling, storage, recordkeeping, advertising, promotion and marketing, distribution, post approval monitoring and reporting and import and export of medical devices and combination drug/device products in the U.S. to assure the safety and effectiveness of medical products for their intended use. The Federal Trade Commission also regulates the advertising of our products. Further, we are subject to laws directed at preventing fraud and abuse, which subject our sales and marketing, training and other practices to government scrutiny.

#### U.S. Device Classification and Clearance

Unless an exemption applies, each new or significantly modified medical device we seek to commercially distribute in the U.S. will require either a premarket notification to the FDA requesting permission for commercial distribution under Section 510(k) of the Federal Food, Drug and Cosmetic Act ("FDC Act") also referred to as a 510(k) clearance, or approval from the FDA of a pre-market approval ("PMA") application.

Under the 510(k) process, applicants must demonstrate to the FDA that the device is as safe and effective as, or substantially equivalent to, a legally marketed device, the "predicate" device. Applicants must submit performance data to establish substantial equivalence. In some instances, data from human clinical trials must also be submitted in support of a 510(k) premarket notification. If so, these data must be collected in a manner that conforms to the applicable Investigational Device Exemption ("IDE") regulations. The FDA must issue a decision finding substantial equivalence before commercial distribution can occur. Changes to cleared devices that could not significantly affect the safety or effectiveness of the device can generally be made without additional 510(k) premarket notifications; otherwise, a new 510(k) is required.

In the PMA application process, the applicant must demonstrate to the satisfaction of the FDA that the device is safe and effective for its intended use. This approval process applies to most Class III devices, and generally requires clinical data to support the safety and effectiveness of the device, obtained in adherence with IDE requirements. The FDA will approve the PMA application if it finds that there is a reasonable assurance that the device is safe and effective for its intended purpose, and that the proposed manufacturing is in compliance with the Quality System Regulation ("QSR"). For novel technologies, the FDA will generally seek input from an advisory panel of medical experts and seek their views on the safety, effectiveness and benefit-risk of the device. The PMA process is generally more detailed, lengthier and more expensive than the 510(k) process, though both the 510(k) clearance and PMA processes can be expensive, and lengthy, and require payment of significant user fees, unless an exemption is available.

#### Drug Regulation in the U.S.

In the U.S., IV solutions are considered pharmaceutical products and subject to the same extensive pre- and post-market regulations by the FDA, as indicated above.

The pre-market approval process is a time-intensive multi-phased process. When successfully completed an application may be submitted to the FDA that includes detailed information relating to the product's chemistry, manufacture, controls and proposed labeling, among other things. This application process may be subject to substantial fees.

FDA approval is typically required before any new drug can be marketed. A New Drug Application ("NDA"), or an Abbreviated New Drug Application ("ANDA"), is typically required to be submitted to the FDA to obtain approval of pharmaceutical products.

Before approval, the FDA typically will inspect the facility or facilities where the product is manufactured. The FDA will not approve an application unless it determines that the manufacturing processes and facilities are in compliance with current Good Manufacturing Practices ("cGMP") requirements and are adequate to assure consistent production of the product within required specifications. Additionally, the FDA may inspect one or more clinical trial sites to assure compliance with Good Clinical Practice, or GCP, requirements.

#### Post-Approval Regulation

After the FDA permits a drug or device to enter commercial distribution, numerous regulatory requirements continue to apply. The FDA actively monitors regulations through review and inspection of design and manufacturing practices, recordkeeping, reporting of adverse events, labeling and promotional practices. The FDA can ban certain medical devices; detain or seize adulterated or misbranded medical devices; order repair, replacement or refund of these devices; and require notification of health professionals and others with regard to medical devices that present unreasonable risks of substantial harm to the public health. The FDA can take action against a company that promotes "off-label" uses. The FDA may also enjoin and restrain a company for certain violations of the FDC Act and regulations pertaining to medical devices, or initiate action for criminal prosecution of such violations. Any adverse regulatory action, depending on its magnitude, may restrict a company from effectively marketing and selling its products, may limit a company's ability to obtain future premarket clearances or approvals, and could results in a substantial modification to the company's business practices and operations.

#### Manufacturing Regulation

We must also comply with FDA, International Organization for Standardization ("ISO") and European Council Directive 93/42/EEC ("Medical Device Directive") regulations governing medical device manufacturing practices. The FDA, state, foreign agencies and ISO require manufacturers to register and subject manufacturers to periodic FDA, state, foreign agencies and ISO inspections of their manufacturing facilities. We are a FDA and ISO registered medical device manufacturer, and must demonstrate that we and our contract manufacturers comply with the FDA's QSR and cGMPs. The FDA and regulatory agencies outside the U.S. monitor compliance with these requirements through inspections of manufacturing facilities. If an inspector observes conditions that might be violative, the manufacturer must correct those conditions or explain them satisfactorily, or face potential regulatory action that might include physical removal of the product from the marketplace.

We believe that our products and procedures are in compliance with all applicable FDA and international regulations. There is no assurance, however, that other products we are developing or products that we may develop in the future will be cleared by the FDA and classified as Class II products, or that additional regulations restricting the sale of our present or proposed products will not be promulgated by the FDA. In addition, changes in FDA, ISO or other federal or state health, environmental or safety regulations or their applications could adversely affect our business.

To market our products in the European Community ("EC"), we must conform to additional requirements of the EC and demonstrate conformance to established quality standards and applicable directives. As a manufacturer that designs, manufactures and markets its own devices, we must comply with the quality management standards of EN ISO 13485. Those quality standards are similar to the QSR regulations.

To market our products in the EC, manufacturers of medical devices must also conform to EC Directives such as Council Directive 93/42/EEC and their applicable annexes. Those regulations assure that medical devices are both safe and effective and meet all applicable established standards prior to being marketed in the EC. Once a manufacturer and its devices are in conformance with the Medical Device Directive, the "CE" Mark may be affixed to its devices. The CE Mark gives devices unobstructed entry to all the member countries of the EC.

We have demonstrated conformity to the regulation of EN ISO 13485 and the Medical Device Directive and we affix the CE Mark to our device labeling for product sold in member countries of the EC.

We believe our products and systems are in compliance with all EC requirements. There can be no assurance, however, that other products we are developing or products that we may develop in the future will conform or that additional regulations restricting the sale of our present or proposed products will not be promulgated by the EC.

#### Other Healthcare Laws

We are subject to additional healthcare regulation and enforcement by the federal government and by authorities in the states and foreign jurisdictions in which we conduct our business. These laws include:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs, such as the Medicare and Medicaid programs. A person or entity does not need to have actual knowledge of the federal Anti-Kickback Statute or specific intent to violate it to have committed a violation. In addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act;
- federal false claims laws which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid or other federal third-party payors that are false or fraudulent;
- the federal Civil Monetary Penalties Law, which prohibits, among other things, offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier;
- federal criminal laws that prohibit executing a scheme to defraud any federal healthcare benefit program or making false statements relating to healthcare matters:
- the federal Health Insurance Portability and Accountability Act of 1996, as amended by the Health Information Technology for Economic and Clinical Health Act, which governs the conduct of certain electronic healthcare transactions and protects the security and privacy of protected health information;
- the federal Physician Payment Sunshine Act, which requires manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program (with certain exceptions) to report annually to the Centers for Medicare & Medicaid Services ("CMS") information related to payments or other "transfers of value" made to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors) and teaching hospitals and ownership and investment interests held by the physicians described above and their immediate family members, and payments or other "transfers of value" to such physician owners; and
- analogous state and foreign law equivalents of each of the above federal laws, such as anti-kickback and false claims
  laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers; state
  laws that require pharmaceutical and device companies to comply with the industry's voluntary compliance guidelines

and the applicable compliance guidance promulgated by the federal government or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require device manufacturers to track and report information related to payments and other "transfers of value" to physicians and other healthcare providers or pricing, marketing expenditures and information; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts.

Due to the breadth of these laws, the absence of guidance in the form of regulations or court decisions, and the potential for additional legal or regulatory change in this area, it is possible that our sales and marketing practices and/or our relationships with physicians and other healthcare providers might be challenged under such laws. If our operations are found to violate any of the laws described above or any other laws and regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, the exclusion from our participation in federal and state healthcare programs and imprisonment, any of which could adversely affect our ability to market our products and materially adversely affect our business, results of operations and financial condition. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business.

#### Coverage and Reimbursement; Cost Containment

Our profitability and operations are subject to changes in legislative, regulatory and reimbursement policies and decisions as well as changes in private payer reimbursement coverage and payment decisions and policies. Our products are purchased by hospitals, physicians and other healthcare providers that typically bill various third-party payors, such as governmental programs, private insurance plans and managed care plans, for the healthcare services and products provided to their patients. The ability of our customers to obtain appropriate coverage and reimbursement for healthcare services and products from third-party payors is critical because it affects which products customer purchase and the prices they are willing to pay. Third-party payors are increasingly reducing coverage and reimbursement for certain healthcare services and products and challenging prices charged for healthcare services and products.

In addition, the U.S. government, state legislatures and foreign governments have continued implementing cost containment programs, including price controls, restrictions on reimbursement and coverage. Adoption of price controls and cost-containment measures, and adoption of more restrictive policies in jurisdictions with existing controls and measures, could further limit our net revenue and results. In the U.S., there has been an increase in political support for controlling significant price increases of drug products, in particular due to high-profile cases that have gained national attention and triggered Congressional inquiries. Implementation of further legislative or administrative reforms in the reimbursement system in the U.S. and abroad or adverse decisions relating to coverage or reimbursement could have an impact on acceptance of and demand for our products and the prices that our customers are willing to pay for them.

#### Competition

Our industry is highly competitive. We believe our ability to effectively compete in this industry will be determined by our ability to provide a wide breadth of cost-effective, high quality products. We believe the added breadth of our HIS business product portfolio has increased our competitiveness as we can now provide a one-stop shop for customers and offer more flexible competitive pricing. We believe the infusion pump will also enable us to pull through a larger volume of higher margin infusion consumables. In addition, we now have unified distribution channels after the HIS acquisition.

#### Infusion Consumables

We believe that our ability to effectively compete in the Infusion Consumables market depends upon our ability to differentiate our products based on continued innovation, safety, quality, convenience, reliability, patent protection, ease of use and the pricing of our products, in addition to access to distribution channels. We encounter significant competition in this market both from global, large, established medical device manufacturers and from smaller companies. We compete with products and systems marketed by Becton Dickinson ("BD"), Baxter International ("Baxter"), B. Braun Medical, Inc. ("B. Braun"), and Fresenius Kabi a division of Fresenius Group ("Fresenius"). Although we believe that our needlefree infusion devices and custom set manufacturing capabilities have distinct advantages over competing systems, there is no assurance that they will be able to compete successfully with these products. Our CSTD used for the preparation and safe handling of oncology drugs, compete with similar products from BD, and B. Braun. We believe that our current CSTD product offering provides benefits over these competing systems in several areas related to safety, ease of use, quality, and cost; however, ongoing innovation in this market space will be required, and there is no assurance that these innovations will be able to sustain continued growth.

#### IV Solutions

We participate in the IV solutions only in the United States and Canada. Our primary competitors in the United States include Baxter, B. Braun and Fresenius. Demand for IV solutions is typically high and raw materials required to produce IV solutions are readily available. Our ability to compete will depend on our ability to maximize production, develop innovations in our product line, focus on cost-effectiveness and our ability to maintain the appropriate quality infrastructure.

#### Infusion Systems

We face strong global competitors including BD, Baxter, B. Braun and Fresenius. These competitors benefit from greater financial, research and development and marketing resources than we have. The smart pump market in recent years has been troubled with security concerns, and product recalls. We believe our ability to effectively compete in this market segment will be determined by our ability to build our brand strength using the development of technological advancements aimed at increasing the quality, reliability and safety of our pumps while at the same time focusing on manufacturing efficiency and cost-effectiveness, which are operationally challenging with evolving product lines.

#### Critical Care

Our primary competitor in Critical Care is Edwards Lifesciences.

#### **Patents**

We have U.S. and/or certain foreign patents relating to the technologies found in the Clave / MicroClave Connector, MicroClave Clear Connector, Neutron Connector, CLC2000 Connector, Tego Connector, ChemoClave Technologies, ChemoLock Technologies, Click Lock Technology, SwabCaps, Custom Set Design and Manufacturing Methods, and Diana Hazardous Drug Compounding System. We have applications pending for additional U.S. and/or foreign patents on MicroClave Connector, Neutron Connector, Tego Connector, Y-Clave Connector with Integral Check Valve, ChemoClave Technologies, ChemoLock Technologies, Swabcaps, and Diana Hazardous Drug Compounding System.

With the acquisition of HIS, we acquired rights, title and interest to a substantial number of patents and patent applications and related provisionals, divisionals, continuations, continuations-in-part, reissues, reexaminations, extensions, and substitutions of any of the foregoing ("Patent Rights"), that were primarily used or held for use by Pfizer in the HIS business. There is however, no single patent or group of patents that we acquired that we believe is material in relation to our business as a whole.

Our success may depend in part on our ability to obtain patent protection for our products and to operate without infringing the proprietary rights of third parties. While we have obtained certain patents and applied for additional U.S. and foreign patents covering certain of our products, there is no assurance that any additional patents will be issued, that the scope of any patent protection will prevent competitors from introducing similar devices or that any of our patents will be held valid if subsequently challenged. Our patents are important in preventing others from introducing competing products that are as effective as our products. The loss of patent protection on Clave/MicroClave, Neutron, Tego Connector, Swabcap, ChemoClave and ChemoLock technologies, could adversely affect our ability to exclude other manufacturers from producing effective competitive products and could have an adverse impact on our financial results.

The fact that a patent is issued to us does not eliminate the possibility that patents owned by others may contain claims that are infringed by our products.

There has been substantial litigation regarding patent and other intellectual property rights in the medical device industry. Litigation, which would result in substantial cost to us and in diversion of our resources, may be necessary to defend us against claimed infringement of the rights of others and to determine the scope and validity of the proprietary rights of others. Adverse determinations in such litigation could subject us to significant liabilities to third parties or could require us to seek licenses from third parties and could prevent us from manufacturing, selling or using our products, any of which could have a material adverse effect on our business. In addition, we have initiated litigation, and may continue to initiate litigation in the future, to enforce our intellectual property rights against those we believe to be infringing on our patents. Such litigation could result in substantial cost and diversion of resources.

#### Seasonality/Quarterly Results

There are no significant seasonal aspects to our business. We can experience fluctuations in net sales as a result of variations in the ordering patterns of our largest customers, which may be driven more by production scheduling and their inventory levels, and less by seasonality. Our expenses often do not fluctuate in the same manner as net sales, which may cause fluctuations in operating income that are disproportionate to fluctuations in our revenue.

#### **Research and Development**

Our research and development costs include personnel costs and expenses related to the development of new products. Research and development costs were \$52.9 million in 2018, \$51.3 million in 2017 and \$13.0 million in 2016.

#### **Employees**

At December 31, 2018, we had 8,100 employees.

#### Geographic Data

Information regarding financial data by geography is set forth in Part II, Item 8. "Financial Statements and Supplementary Data" of this Form 10-K in Note 4 and 13 to the Consolidated Financial Statements, and is incorporated herein by reference.

#### **Available Information**

Our website address is http://www.icumed.com. We make available our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, and amendments to those reports free of charge on our website as soon as reasonably practicable after filing them with the Securities and Exchange Commission ("SEC"). We also have our code of ethics posted on our website (http://www.icumed.com). The information on our website is not incorporated into this Annual Report.

The public may read and copy any materials we file with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC on its website (http://www.sec.gov).

#### ITEM 1A. RISK FACTORS

In evaluating an investment in our common stock, investors should consider carefully, among other things, the following risk factors, as well as the other information contained in this Annual Report and our other reports and registration statements filed with the SEC. Any of the following risks, as well as additional risks and uncertainties not currently known to us or that we currently deem immaterial, could materially and adversely affect our results of operations or financial condition.

#### Risks Related to our Strategic Transactions

Failure to integrate acquired businesses into our operations successfully could adversely impact our business and our operating results and such acquisitions could result in unforeseen operating difficulties and expenditures, require significant management resources, and require significant charges or write-downs.

We may seek to supplement our internal growth through acquisitions of complementary businesses, technologies, services, or products, as well as investments and strategic alliances. Such transactions are inherently risky, and the integration of any newly-acquired business requires significant effort and management attention that otherwise would be available for ongoing development of our other businesses. The success of any acquisition, investment or alliance may be affected by a number of factors, including our ability to properly assess and value the potential business opportunity or to successfully integrate any business we may acquire into our existing business. There can be no assurance that any past or future transactions will be successful.

The HIS acquisition that closed on February 3, 2017 was a significant transaction for us and the HIS business was one in which we did not operate directly prior to the closing of the transaction. Integrating the operations of the HIS business with that of our own is a complex, costly and time-consuming process and the nature of a carve out acquisition makes it inherently

more difficult to assume operations on closing day as well as to integrate activities, as certain systems, processes and people may not all have transferred with the acquired business to support such activities. The failure to meet the challenges involved in integrating the two businesses could adversely affect the results of operations of the combined businesses. Potential difficulties that may be encountered in the integration of the HIS business or in the process of integrating other businesses we acquire include the following:

- challenges in preserving important strategic customer and other third-party relationships of both businesses;
- the diversion of management's attention to integration matters;
- challenges in maintaining employee morale and retaining or attracting key employees;
- potential incompatibility of corporate cultures;
- costs, delays and other difficulties (i) consolidating corporate and administrative infrastructures and information systems and (ii) implementing common systems and procedures including, in particular, our internal controls over financial reporting; and
- coordinating and integrating a geographically dispersed organization, including operations in jurisdictions we did not operate in prior to the transaction.

Any one or all of these factors may increase operating costs or lower anticipated financial performance. Achieving the anticipated benefits and the potential benefits underlying our reasons for the HIS business acquisition will depend on successful integration of the businesses. Because of the significance of the HIS business acquisition to us, our failure to successfully integrate the HIS business with that of our own could have a material adverse impact on our business, financial condition and results of operations.

If we are unable to effectively manage our internal growth or growth through acquisitions of companies, assets or products, our financial performance may be adversely affected.

We intend to continue to expand our marketing and distribution capability, which may include external expansion through acquisitions both in the U.S. and foreign markets. We may also consider expanding our product offerings through acquisitions of companies or product lines. We can provide no assurance that we will be able to identify, acquire, develop or profitably manage additional companies or operations or successfully integrate such companies or operations into our existing operations without substantial costs, delays or other problems. We acquired the HIS business in February 2017, which includes IV pumps, solutions, and devices in order to create a leading pure-play infusion therapy company, but we continue to make significant integration efforts in order to achieve the anticipated benefits of the transaction.

We have additional production facilities outside the U.S. to reduce labor costs. The expansion of our marketing, distribution and product offerings both internally and through acquisitions or by contract may place substantial burdens on our management resources and financial controls. Decentralization of assembly and manufacturing could place further burdens on management to manage those operations and maintain efficiencies and quality control.

The increasing burdens on our management resources and financial controls resulting from internal growth and acquisitions could adversely affect our operating results. In addition, acquisitions may involve a number of special risks in addition to the difficulty of integrating cultures and operations and the diversion of management's attention, including adverse short-term effects on our reported operating results, dependence on retention, hiring and training of key personnel, risks associated with unanticipated problems or legal liabilities and amortization of acquired intangible assets, some or all of which could materially and adversely affect our operations and financial performance.

#### **Business and Operating Risks**

We are dependent on single and limited source third-party suppliers, which subjects our business and results of operations to risks of supplier business interruptions, and a loss or degradation in performance in our suppliers could have an adverse effect on our business and financial condition.

Although we have risk mitigation plans in place with key suppliers, we have materials (such as resins) that are critical to our ability to manufacture our products, the supply of which is currently from a sole supplier. We cannot be certain that our current suppliers will continue to provide us with the quantities of materials that we require or satisfy our anticipated specifications and quality requirements on a timely basis or at all. Any supply interruption in limited or sole sourced raw materials could materially harm our ability to manufacture our products until a new source of supply, if any, could be identified and qualified. Although we believe there are other suppliers of these raw materials, we may be unable to find a sufficient alternative supply channel in a reasonable time or on commercially reasonable terms. Furthermore, our contract manufacturers could require us to move to another one of their production facilities. An interruption in our commercial operations could occur

if we encounter delays or difficulties in securing these components, materials or services and if we cannot then obtain an acceptable substitute. Additionally, we are subject to FDA regulations, which could further delay our ability to obtain a qualified alternative supplier. Any performance failure on the part of our suppliers could delay the development and manufacture of our products, which could have a material adverse effect on our business. Due to the highly competitive nature of the healthcare industry and the cost controls of our customers and third party payors, we may be unable to pass along cost increases for any key components or raw materials increases through higher prices to our customers. If the cost of key components or raw materials increases and we are unable fully to recover those increased costs through price increases or offset these increases through other cost reductions, we could experience an adverse effect on our financial condition.

Damage to any of our manufacturing facilities could impair our ability to produce our products.

A severe weather event, other natural or man-made disaster, or any other significant disruption affecting one of our manufacturing facilities could materially and adversely impact our business, financial condition and results of operations.

We have a single manufacturing facility for our Clave products located in Salt Lake City, Utah. Our Salt Lake City facility also produces other components on which our manufacturing operations in Mexico and Costa Rica rely. Our IV Solutions are manufactured at our manufacturing facility in Austin, Texas and by a third party manufacturer Pfizer in Rocky Mount, North Carolina.

Damage to any of our facilities could render us unable to manufacture our products or require us to reduce the output of products at the damaged facility.

Expansion of our manufacturing facilities may result in inefficiencies that could have an adverse effect on our operations and financial results.

In the fourth quarter of 2006, we experienced significant production inefficiencies following a large increase in production volume in Mexico and the transfer of San Clemente production to Salt Lake City. In 2007, we expanded our Mexico facility and, anticipating further increases in volume at that facility, increased the workforce. An additional expansion of our Mexico facility was completed in January 2011. Turnover among new employees was unusually high in Mexico, and the additional time spent in classroom training and on the job training could create production inefficiencies in Mexico in the future. The addition of new products will require additional molding in Salt Lake City and manual assembly work in Mexico. Expansions of our production capacity will require significant management attention to avoid inefficiencies of the type experienced in 2006, and the effect of any inefficiencies can be particularly expensive in Salt Lake City because of the high fixed costs in this highly automated facility.

We may be unable to realize any benefit from our cost reduction and restructuring efforts and our profitability may be hurt or our business otherwise might be adversely affected.

We have engaged in restructuring activities in the past and may engage in other restructuring activities in the future. These types of cost reduction and restructuring activities are complex. If we do not successfully manage our current restructuring activities, or any other restructuring activities that we may take in the future, any expected efficiencies and benefits might be delayed or not realized, and our operations and business could be disrupted. In addition, the costs associated with implementing restructuring activities might exceed expectations, which could result in additional future charges.

#### Market and Other External Risks

If we are unable to compete successfully on the basis of product innovation, quality, convenience, price and rapid delivery with larger companies that have substantially greater resources and larger distribution networks than us, we may be unable to maintain market share, in which case our sales may not grow and our profitability may be adversely affected.

The consumable medical device segment of the health care industry and in particular the infusion products market is intensely competitive and is experiencing both horizontal and vertical consolidation. We believe that our ability to compete depends upon continued product innovation, the quality, convenience and reliability of our products, access to distribution channels, patent protection and pricing. The ability to compete effectively depends on our ability to differentiate our products based on safety features, product quality, cost effectiveness, ease of use and convenience, as well as our ability to perceive and respond to changing customer needs. We encounter significant competition in our markets both from large established medical device manufacturers and from smaller companies. Many of these companies have introduced competitive products with features not provided by the conventional products and methods they are intended to replace. Most of our current and prospective competitors have economic and other resources substantially greater than ours and are well established in the

healthcare industry. Several large, established competitors offer broad product lines and have been successful in obtaining full-line contracts with a significant number of hospitals and group purchasing organizations to supply all of their infusion product requirements. Due to the highly competitive nature of the group purchasing organizations ("GPOs") or integrated delivery networks ("IDNs") contracting processes, we may not be able to obtain or maintain contract positions with major GPOs and IDNs across our products portfolio. Furthermore, the increasing leverage of organizing buy-in groups may reduce market prices for our products thereby affecting our profitability. While having a contract with a GPO or IDN can facilitate sales to members of that GPO or IDN, it is no assurance that sales volume of those products will be maintained. The members of such groups may choose to purchase from our competitors due to the price or quality offered by such competitors, which could result in a decline in our sales and profitability. In addition, distributors of our products may begin to negotiate terms of sale more aggressively in an effort to increase their profitability. Failure to negotiate distribution arrangements having advantageous pricing or other terms of sale could adversely affect our results of operations and financial condition. In addition, if we fail to implement distribution arrangements successfully, it could cause us to lose market share to our competitors. Moreover, there is no assurance that our competitors will not substantially increase resources devoted to the development, manufacture and marketing of products competitive with our products. The successful implementation of such a strategy by one or more of our competitors could materially and adversely affect us.

If we do not successfully develop and commercialize enhanced or new products that remain competitive with new products or alternative technologies developed by others, we could lose revenue opportunities and customers, and our ability to grow our business would be impaired.

The medical device industry is characterized by rapid product development and technological advances, which places our products at risk of obsolescence. Our long-term success and profit margins depend upon the development and successful commercialization of new products, new or improved technologies and additional applications of our technology. The research and development process is time-consuming and costly, and may not result in products or applications that we can successfully commercialize. We can give no assurance that any such new products will be successful or that they will be accepted in the marketplace.

Product development requires substantial investment that may be difficult for us to fund and may be challenging to recover through commercial product sales.

Innovations generally require a substantial investment in product development before we can determine their commercial viability, and we may not have the financial resources necessary to fund these innovations. Even if we succeed in creating new product candidates from these innovations, those innovations still may fail to result in commercially successful products. The success of new product offerings for device products depends on several factors, including our ability to anticipate and meet customers'/patients' needs, obtain timely regulatory approvals or clearances, and manufacture quality products in an economic and timely manner. Even if we are able to develop successfully new products or enhancements, we may not produce sales exceeding the costs of development, and we may not avoid infringing the proprietary rights of third parties. Further, those new or enhanced products may be quickly rendered obsolete by changing customer preferences or the introduction by competitors of products embodying new technologies or features. Moreover, innovations may not be successful due to difficulties encountered in achieving positive clinical outcomes, meeting safety, efficacy or other regulatory requirements of government agencies, or obtaining favorable pricing on those products. Finally, innovations may not be accepted quickly in the marketplace because of, among other things, entrenched patterns of clinical practice and uncertainty over third-party reimbursement.

If demand for our products were to decline significantly, we might not be able to recover the cost of our expensive automated molding and assembly equipment and tooling, which could have an adverse effect on our results of operations.

Our production tooling is relatively expensive, with each "module," which consists of an automated assembly machine and the molds and molding machines that mold the components, costing several million dollars. Most of the modules are for the Clave product family. If the demand for these products changes significantly, which could happen with the loss of a customer or a change in product mix, it may be necessary for us to recognize an impairment charge for the value of the production tooling because its cost may not be recovered through production of saleable product, which could adversely affect our financial condition.

We have been and will be ordering production molds and equipment for our new products. We expect to order semi-automated or fully automated assembly machines for other new Infusion Consumables products in 2019. We also are adding additional IV Solutions capacity at our IV Solutions manufacturing facility. If we do not achieve significant sales of these new products, it might be necessary for us to recognize an impairment charge for the value of the production tooling because its costs may not be recovered through production of saleable product, which could adversely affect our financial condition.

Our operating results may be adversely affected by unfavorable economic conditions that affect our customers' ability to buy our products and could affect our relationships with our suppliers.

Disruptions in financial markets worldwide and other worldwide macro-economic challenges may cause our customers and suppliers to experience cash flow concerns. If job losses and the resulting loss of health insurance and personal savings cause individuals to forgo or postpone treatment, the resulting decreased hospital use could affect the demand for our products. As a result, customers may modify, delay or cancel plans to purchase our products and suppliers may increase their prices, reduce their output or change terms of sales. Additionally, if customers' or suppliers' operating and financial performance deteriorates, or if they are unable to make scheduled payments or obtain credit, customers may not be able to pay, or may delay payment of, accounts receivable owed to us and suppliers may impose different payment terms. Any inability of current and/or potential customers to pay us for our products or any demands by suppliers for different payment terms may adversely affect our earnings and cash flow.

Continuing pressures to reduce healthcare costs and inadequate coverage and reimbursement may adversely affect our prices. If we cannot reduce manufacturing costs of existing and new products, our sales may not grow and our profitability may decline.

Increasing awareness of healthcare costs, public interest in healthcare reform and continuing pressure from Medicare, Medicaid, group purchasing organizations and other payers, both domestic and international, to reduce costs in the healthcare industry, as well as increasing competition from other protective products, could make it more difficult for us to sell our products at current prices. Our products are purchased by hospitals, physicians and other healthcare providers that typically bill various third-party payors, such as governmental programs, private insurance plans and managed care plans, for the healthcare services and products provided to their patients. The ability of our customers to obtain appropriate coverage and reimbursement for healthcare services and products from third-party payors is critical because it affects which products customers purchase and the prices they are willing to pay. Because there is often no separate reimbursement for supplies used in surgical procedures, the additional cost associated with the use of our products can affect the profit margin of the hospital or surgery center where the procedure is performed. Some of our target customers may be unwilling to adopt our products in light of the additional associated cost. Further, any decline in the amount payors are willing to reimburse our customers could make it difficult for existing customers to continue using or to adopt our products and could create additional pricing pressure for us. If we are forced to lower the price we charge for our products, our gross margins will decrease, which could have a material adverse effect on our business, financial condition and results of operations and impair our ability to grow our business.

Third-party payors, whether foreign or domestic, or governmental or commercial, are developing increasingly sophisticated methods of controlling healthcare costs. In addition, no uniform policy of coverage and reimbursement for procedures using our products exists among third-party payors. Therefore, coverage and reimbursement for procedures using our products can differ significantly from payor to payor. Payors continually review new and existing technologies for possible coverage and can, without notice, deny or reverse coverage for new or existing products and procedures. There can be no assurance that third-party payor policies will provide coverage for procedures in which our products are used. If we are not successful in reversing existing non-coverage policies, or if third-party payors that currently cover or reimburse our products and related procedures reverse or limit their coverage in the future, or if other third-party payors issue similar policies, this could have a material adverse effect on our business.

Further, we believe that future coverage and reimbursement may be subject to increased restrictions, such as additional prior authorization requirements, both in the U.S. and in international markets. Third-party coverage and reimbursement for procedures using our products or any of our products in development for which we may receive regulatory approval may not be available or adequate in either the U.S. or international markets, which could have an adverse effect on our business, financial condition and results of operations and impair our ability to grow our business.

Implementation of further legislative or administrative reforms in the reimbursement system in the U.S. and abroad or adverse decisions relating to coverage or reimbursement could have an impact on acceptance of and demand for our products and the prices that our customers are willing to pay for them. In the event that the market will not accept current prices for our products, our sales and profits could be adversely affected. We believe that our ability to increase our market share and operate profitably in the long term may depend in part on our ability to reduce manufacturing costs on a per unit basis through high volume production using highly automated molding and assembly systems. If we are unable to reduce unit manufacturing costs, we may be unable to increase our market share for Clave products or may lose market share to alternative products, including competitors' products. Similarly, if we cannot reduce unit manufacturing costs of new products as production volumes increase, we may not be able to sell new products profitably or gain any meaningful market share. Any of these results would adversely affect our future results of operations.

We are subject to foreign, federal, and state data privacy and security laws, and failure to protect our information systems against security breaches, service interruptions, or misappropriation of data could disrupt operations, compromise sensitive data, and expose us to liability, possibly causing our business and reputation to suffer.

We depend heavily on information technology infrastructure and systems to achieve our business objectives. Any incident that impairs or compromises this infrastructure, including security breaches, malicious attacks or more general service interruptions, could impede our ability to process orders, manufacture and ship product in a timely manner, protect sensitive data and otherwise carry on business in the normal course. Any such events could result in the loss of customers, revenue, or both, and could require us to incur significant expense to remediate, including legal claims or proceedings. Further, as cyber security related incidents continue to evolve, and regulatory focus on these issues continues to expand, additional investment in protective measures, and vulnerability remediation, may be required.

We are also subject to various federal, state and foreign laws that protect the confidentiality of certain patient health information, including patient medical records, and restrict the use and disclosure of patient health information by healthcare providers, such as the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 ("HITECH"), in the U.S. HIPAA established uniform standards governing the conduct of certain electronic healthcare transactions and requires certain entities, called covered entities, to comply with standards that include the privacy and security of protected health information ("PHI"). HIPAA also requires business associates, such as independent contractors or agents of covered entities that have access to PHI in connection with providing a service to or on behalf of a covered entity, of covered entities to enter into business associate agreements with the covered entity and to safeguard the covered entity's PHI against improper use and disclosure.

The HIPAA privacy regulations cover the use and disclosure of PHI by covered entities as well as business associates, which are defined to include subcontractors that create, receive, maintain, or transmit PHI on behalf of a business associate. They also set forth certain rights that an individual has with respect to his or her PHI maintained by a covered entity, including the right to access or amend certain records containing PHI, or to request restrictions on the use or disclosure of PHI. The security regulations establish requirements for safeguarding the confidentiality, integrity, and availability of PHI that is electronically transmitted or electronically stored. HITECH, among other things, established certain health information security breach notification requirements. A covered entity must notify any individual whose PHI is breached according to the specifications set forth in the breach notification rule. The HIPAA privacy and security regulations establish a uniform federal "floor" and do not supersede state laws that are more stringent or provide individuals with greater rights with respect to the privacy or security of, and access to, their records containing PHI or insofar as such state laws apply to personal information that is broader in scope than PHI as defined under HIPAA. Similarly, we may be subject to additional federal privacy laws such as Section 5 of the Federal Trade Commission Act.

HIPAA requires the notification of patients, and other compliance actions, in the event of a breach of unsecured PHI. If notification to patients of a breach is required, such notification must be provided without unreasonable delay and in no event later than 60 calendar days after discovery of the breach. In addition, if the PHI of 500 or more individuals is improperly used or disclosed, we would be required to report the improper use or disclosure to the U.S. Department of Health and Human Services ("HHS") which would post the violation on its website, and to the media.

HIPAA authorizes state attorneys general to file suit on behalf of their residents for violations. Courts are able to award damages, costs and attorneys' fees related to violations of HIPAA in such cases. While HIPAA does not create a private right of action allowing individuals to file suit against us in civil court for violations of HIPAA, its standards have been used as the basis for duty of care cases in state civil suits such as those for negligence or recklessness in the misuse or breach of PHI. In addition, HIPAA mandates that the Secretary of HHS conduct periodic compliance audits of HIPAA covered entities, and their business associates for compliance with the HIPAA privacy and security standards. It also tasks HHS with establishing a methodology whereby harmed individuals who were the victims of breaches of unsecured PHI may receive a percentage of the civil monetary penalty paid by the violator.

The new EU-wide General Data Protection Regulation ("GDPR") became applicable on May 25, 2018, replacing the prior data protection laws issued by each EU member state based on the Directive 95/46/EC. Unlike the Directive (which needed to be transposed at national level), the GDPR text is directly applicable in each EU member state, resulting in a more uniform application of data privacy laws across the EU. The GDPR imposes onerous accountability obligations requiring data controllers and processors to maintain a record of their data processing and policies. It requires data controllers to be transparent and disclose to data subjects (in a concise, intelligible and easily accessible form) how their personal information is to be used, imposes limitations on retention of information, increases requirements pertaining to pseudonymized (i.e., keycoded) data, introduces mandatory data breach notification requirements and sets higher standards for data controllers to

demonstrate that they have obtained valid consent for certain data processing activities. Fines for non-compliance with the GDPR are significant-the greater of EUR 20 million or 4% of global turnover. The GDPR provides that EU member states may introduce further conditions, including limitations, to the processing of genetic, biometric or health data, which could limit our ability to collect, use and share personal data, or could cause our compliance costs to increase, ultimately having an adverse impact on our business. We are subject to the supervision of local data protection authorities in those jurisdictions where we are established or otherwise subject to applicable law.

The California legislature passed the California Consumer Privacy Act of 2018 (the "CCPA") on June 28, 2018. The CCPA applies to certain businesses that collect personal information from California residents, whether directly or indirectly. The CCPA establishes several consumer rights including a right to know what personal information is being collected about them and whether and to whom it is sold, a right to access their personal information and have it deleted, a right to opt out of the sale of their personal information, and a right to equal service and price regardless of exercise of these rights. Violation of the CCPA can result in civil penalties through enforcement by the California Attorney General (effective July 1, 2020) or a private right of action by consumers following a data breach (effective January 1, 2020). The law includes specific exemptions for entities and information covered by HIPAA or the Confidentiality of Medical Information Act (CMIA). However, not all personal information maintained by entities covered by HIPAA or CMIA is exempt from the CCPA. California legislators have stated that they intend to propose amendments to the CCPA before it goes into effect, and it remains unclear what, if any, modifications will be made to this legislation or how it will be interpreted. The U.S. Congress may also pass a law to pre-empt all or part of the CCPA. As passed, the effects of the CCPA potentially are significant, however, and may require us to modify our data collection or processing practices and policies and to incur substantial costs and expenses in an effort to comply. Implementing regulations from the Attorney General that may clarify the CCPA are not due until July 1, 2020 and additional amendments to the CCPA may be signed into law before then.

Failure to comply with any of these laws or to protect our information systems against security breaches, service interruptions, or misappropriation of data could disrupt operations, compromise sensitive data, and expose us to fines, penalties, other liability, and reputational harm, any of which could adversely affect our ability to operate our business and our financial results.

Expiring patents may affect our future sales.

Some of our products are covered by patents that, if valid, give us a degree of market exclusivity during the term of the patent. Upon patent expiration, our competitors may introduce products using the same technology. As a result of this possible increase in competition, we may need to reduce our prices to maintain sales of our products, which would make them less profitable. If we fail to develop and successfully launch new products prior to the expiration of patents for our existing products, our sales and profits with respect to those products could decline significantly. We may not be able to develop and successfully launch more advanced replacement products before these and other patents expire.

If we cannot obtain additional custom tooling and equipment on a timely basis to enable us to meet demand for our products, we might be unable to increase our sales or might lose customers, in which case our sales could decline.

We expanded our manufacturing capacity substantially in recent years, and we expect that continued expansion may be necessary. Molds and automated assembly machines generally have a long lead-time with vendors, often nine months or longer. Inability to secure such tooling in a timely manner, or unexpected increases in production demands, could cause us to be unable to meet customer orders. Such inability could cause customers to seek alternatives to our products.

Increases in the cost of petroleum-based and natural gas-based products or loss of supply could have an adverse effect on our profitability.

Most of the materials used in our products are resins, plastics and other material that depend upon oil or natural gas as their raw material. Crude oil markets are affected by political uncertainty in the Middle East, and there is no assurance that crude oil supplies will not be interrupted in the future. New laws or regulations adopted in response to climate change could also increase energy costs as well as the costs of certain raw materials and components. Any such regulations or interruptions could have an adverse effect on our ability to produce, or the cost to produce, our products. Also, crude oil and natural gas prices have been volatile in recent years. Our suppliers have historically passed some of their cost increases on to us, and if such prices are sustained or increase further, our suppliers may pass further cost increases on to us. In addition to the effect on resin prices, transportation costs have increased because of the effect of higher crude oil prices, and we believe most of these costs have been passed on to us. Our ability to recover these increased costs may depend upon our ability to raise prices on our products. In the past, we have rarely raised prices and it is uncertain that we would be able to raise them to recover higher

prices from our suppliers. Our inability to raise prices in those circumstances, or to otherwise recover these costs, could have an adverse effect on our profitability.

Our business could suffer if we lose the services of key personnel.

We are dependent upon the management and leadership of our executive team, as well as other members of our senior management team. If one or more of these individuals were unable or unwilling to continue in his or her present position, our business would be disrupted and we might not be able to find replacements on a timely basis or with the same level of skill and experience, which could have an adverse effect on our business. We do not have "key person" life insurance policies on any of our employees.

The price of our common stock has been and may continue to be highly volatile due to many factors.

The market for small and mid-market capitalization companies can be highly volatile, and we have experienced significant volatility in the price of our common stock in the past. From January 2016 through December 2018, our trading price ranged from a high of \$321.70 per share to a low of \$85.56 per share. We believe that factors such as quarter-to-quarter fluctuations in financial results, differences between stock analysts' expectations and actual quarterly and annual results, new product introductions by us or our competitors, acquisitions or divestitures, changing regulatory environments, litigation, changes in healthcare reimbursement policies, sales or the perception in the market of possible sales of common stock by insiders, market rumors and substantial product orders could contribute to the volatility in the price of our common stock. General economic trends unrelated to our performance such as recessionary cycles and changing interest rates may also adversely affect the market price of our common stock; the recent macroeconomic downturn could depress our stock price for some time.

Most of our common stock is held by, or included in accounts managed by, institutional investors or managers. Several of those institutions own or manage a significant percentage of our outstanding shares, with the ten largest interests accounting for approximately 55% of our outstanding shares at the end of 2018. If one or more of the institutions or if our other large stockholders should decide to reduce or eliminate their position in our common stock, it could cause a significant decrease in the price of our common stock.

Changes in funding for the FDA and other government agencies could hinder their ability to hire and retain key leadership and other personnel, or otherwise prevent new products and services from being developed or commercialized in a timely manner, which could negatively impact our business.

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, and statutory, regulatory, and policy changes. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of other government agencies that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable.

Disruptions at the FDA and other agencies may also slow the time necessary for new products to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. For example, over the last several years, including for 35 days beginning on December 22, 2018, the U.S. government has shut down several times and certain regulatory agencies, such as the FDA, have had to furlough critical FDA employees and stop critical activities. If a prolonged government shutdown occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business.

#### Legal, Compliance, and Regulatory Risks

We are subject to certain federal, state and foreign fraud and abuse and transparency laws, which, if violated, could subject us to substantial penalties. Additionally, any challenge to or investigation into our practices under these laws could cause adverse publicity and be costly to respond to, and thus could harm our business.

There are numerous U.S. federal and state, as well as foreign, laws pertaining to healthcare fraud and abuse, including anti-kickback, false claims and physician transparency laws. Our business practices and relationships with providers are subject to scrutiny under these laws. The healthcare laws and regulations that may affect our ability to operate include, but are not limited to:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons and entities from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in cash or in kind, to induce either the referral of an individual or furnishing or arranging for a good or service, for which payment may be made, in whole or in part, under federal healthcare programs, such as Medicare and Medicaid. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it to have committed a violation. The U.S. government has interpreted this law broadly to apply to the marketing and sales activities of manufacturers. Moreover, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal civil False Claims Act. Violations of the federal Anti-Kickback Statute may result in civil monetary penalties up to \$100,000 for each violation, plus up to three times the remuneration involved. Civil penalties for such conduct can further be assessed under the federal False Claims Act. Violations can also result in criminal penalties, including criminal fines of up to \$100,000 and imprisonment of up to 10 years. Similarly, violations can result in exclusion from participation in government healthcare programs, including Medicare and Medicaid;
- the federal civil and criminal false claims laws and civil monetary penalties laws, including the federal civil False Claims Act, which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid or other federal healthcare programs that are false or fraudulent. These laws can apply to manufacturers who provide information on coverage, coding, and reimbursement of their products to persons who bill third-party payers. Private individuals can bring False Claims Act "qui tam" actions, on behalf of the government and such individuals, commonly known as "whistleblowers," may share in amounts paid by the entity to the government in fines or settlement. When an entity is determined to have violated the federal civil False Claims Act, the government may impose civil fines and penalties ranging from \$11,181 to \$22,363 for each false claim, plus treble damages, and exclude the entity from participation in Medicare, Medicaid and other federal healthcare programs;
- the federal Civil Monetary Penalties Law, which prohibits, among other things, offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier;
- the federal Physician Sunshine Act under the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, collectively referred to as the Affordable Care Act, which require certain applicable manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program ("CHIP") to report annually to the US Department of Health and Human Services Centers for Medicare and Medicaid Services ("CMS") information related to payments and other transfers of value to physicians, certain other healthcare providers, and teaching hospitals, and applicable manufacturers and group purchasing organizations, to report annually ownership and investment interests held by physicians and their immediate family members. Applicable manufacturers are required to submit annual reports to CMS. Failure to submit required information may result in civil monetary penalties of \$11,278 per failure up to an aggregate of \$169,170 per year (or up to an aggregate of \$1.128 million per year for "knowing failures"), for all payments, transfers of value or ownership or investment interests that are not timely, accurately, and completely reported in an annual submission, and may result in liability under other federal laws or regulations;
- HIPAA, which created additional federal criminal statutes that prohibit, among other things, executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it to have committed a violation. In addition, HIPAA, as amended by HITECH and their respective implementing regulations, which impose requirements on certain covered healthcare providers, health plans and healthcare clearinghouses as well as their business associates that perform services for them that involve individually identifiable health information, relating to the privacy, security and transmission of individually identifiable health information without appropriate authorization, including mandatory contractual terms as well as directly applicable privacy and security standards and requirements. Failure to comply with the HIPAA privacy and security standards can result in civil monetary penalties up to \$57,051 per violation, not to exceed \$1.71 million per calendar year for non-compliance of an identical provision, and, in certain circumstances, criminal penalties with fines up to \$250,000 per violation and/or imprisonment. State attorneys general can also bring a civil action to enjoin a HIPAA violation or to obtain statutory damages on behalf of residents of his or her state; and
- analogous state and foreign law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers or patients; state laws that require device companies to comply with the industry's voluntary compliance guidelines and the applicable compliance guidance promulgated by the federal government or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require device manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; consumer protection and unfair competition laws, which broadly regulate marketplace

activities and activities that potentially harm customers; and state laws related to insurance fraud in the case of claims involving private insurers.

These laws and regulations, among other things, constrain our business, marketing and other promotional activities by limiting the kinds of financial arrangements, including sales programs, we may have with hospitals, physicians or other potential purchasers of our products. Due to the breadth of these laws, the narrowness of statutory exceptions and regulatory safe harbors available, and the range of interpretations to which they are subject, it is possible that some of our current or future practices might be challenged under one or more of these laws.

To enforce compliance with the healthcare regulatory laws, certain enforcement bodies have recently increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions and settlements in the healthcare industry. Responding to investigations can be time-and resource-consuming and can divert management's attention from the business. Additionally, as a result of these investigations, healthcare providers and entities may have to agree to additional compliance and reporting requirements as part of a consent decree or corporate integrity agreement. Any such investigation or settlement could increase our costs or otherwise have an adverse effect on our business. Even an unsuccessful challenge or investigation into our practices could cause adverse publicity, and be costly to respond to. If our operations are found to be in violation of any of the healthcare laws or regulations described above or any other healthcare regulations that apply to us, we may be subject to penalties, including administrative, civil and criminal penalties, damages, fines, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, imprisonment, contractual damages, reputational harm, disgorgement and the curtailment or restructuring of our operations.

Healthcare regulation and reform measures could adversely affect our revenue and financial condition.

The healthcare industry is highly regulated and in recent years, there have been numerous changes in initiatives, laws and regulations. The federal government and all states and jurisdictions in which we currently operate regulate various aspects of our business. Changes in law or new interpretation of existing laws can have a material effect on our permissible activities and the relative costs associated with doing business. The laws and regulations that may affect our ability to operate include, without limitation, anti-kickback laws that prohibit payments or other remuneration that could be considered to induce hospitals, physicians or other potential purchasers of our products either to refer patients or to purchase, lease or order, or arrange for or recommend the purchase, lease or order, of healthcare products or services for which payment may be made under federal and state healthcare programs as well as false claims laws that prohibit filing of false or improper claims for payment. Federal laws apply to federal and state healthcare programs, such as Medicare and Medicaid, and several states have similar laws that may apply more broadly to all payors. Although we would not submit claims directly to government payors, manufacturers can be held liable under the federal and state false claim act if they are deemed to "cause" the submission of false or fraudulent claims by, for example, providing inaccurate billing or coding information to customers, price reporting, or promoting a product off-label. In addition, our activities relating to the reporting of wholesaler or estimated retail prices for our products, the reporting of prices used to calculate Medicaid rebate information and other information affecting federal, state, and third-party reimbursement for our products, and the sale and marketing of our products, are subject to scrutiny under this federal and state false claims laws. As a manufacturer of U.S. FDA-approved products reimbursable by federal healthcare programs, we are subject to the Physician Payments Sunshine Act, which requires us to annually report certain payments and other transfers of value we make to U.S.-licensed physicians and certain other healthcare professionals or U.S. teaching hospitals and any ownership or investment interests held by physicians and their immediate family members. These laws may affect our sales, marketing and other promotional activities by limiting the kinds of financial arrangements we may have with hospitals, physicians and other potential purchasers of our products. These laws are broadly written and are subject to evolving interpretations, and it is often difficult to determine how these laws will be applied to specific circumstances. In addition, any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the laws described above or any other governmental laws or regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, the exclusion from participation in federal and state healthcare programs, imprisonment, or the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our financial results.

Our profitability and operations are subject to risks relating to changes in government and private reimbursement programs and policies and changes in legal requirements in the U.S. and in the world. There have been, and we expect there will continue to be, a number of legislative and regulatory changes to the healthcare system that could affect our future revenues and profitability in the U.S. and abroad. Federal and state lawmakers regularly propose and, at times, enact legislation that results in significant changes to the healthcare system, some of which are intended to contain or reduce the costs of medical products and services. For example, in 2010, the Patient Protection and Affordable Care Act and the Health Care and Education Reconciliation Act ("Affordable Care Act") were signed into law introducing comprehensive health insurance

and healthcare reforms in the U.S. Among the provisions of such legislation that may have an adverse impact on us is a 2.3% excise tax imposed on medical device manufacturers for the sale of certain medical devices to U.S. customers. The excise tax, which became effective January 1, 2013, resulted in additional expense of \$2.0 million in 2015 recorded in Selling, General and Administrative expenses. Congress has temporarily suspended this medical device excise tax for two years commencing January 2018. Unless Congress changes the current law, we expect this tax to resume beginning in 2020. The Affordable Care Act also provided incentives to programs that increase the federal government's comparative effectiveness research, and implemented payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians and other providers to improve the coordination, quality and efficiency of certain healthcare services through bundled payment models. Additionally, the Affordable Care Act has expanded eligibility criteria for Medicaid programs and created a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research. We do not yet know the full impact that the Affordable Care Act will have on our business.

We expect that the current Presidential Administration and U.S. Congress will continue to seek to modify, repeal, or otherwise invalidate all, or certain provisions of, the Affordable Care Act. For example, the Tax Cuts and Jobs Acts was enacted, which, among other things, removes penalties for not complying with the individual mandate to carry health insurance, beginning in 2019. On December 14, 2018, a U.S. District Court Judge in the Northern District of Texas, ruled that the Affordable Care Act's individual mandate to carry insurance coverage is a critical and inseverable feature of the Affordable Care Act, and therefore, because it was repealed as part of the Tax Cuts and Jobs Act, the remaining provisions of the Affordable Care Act are invalid as well. While the Trump Administration and the Centers for Medicare & Medicaid Services, or CMS, have both stated that the ruling will have no immediate effect, it is unclear how this decision, subsequent appeals, if any, and other efforts to repeal and replace the Affordable Care Act will impact the Affordable Care Act and our business.

There is still uncertainty with respect to the impact President Trump's administration and the U.S. Congress may have, if any, and any changes will likely take time to unfold, and could have an impact on coverage and reimbursement for healthcare items and services covered by plans that were authorized by the Affordable Care Act. In addition, other legislative changes have been proposed and adopted in the U.S. since the Affordable Care Act was enacted that reduced payments to Medicare providers. On August 2, 2011, the Budget Control Act of 2011 was signed into law, which, among other things, reduced Medicare payments to providers by 2% per fiscal year, effective on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2027 unless additional Congressional action is taken. On January 2, 2013, the American Taxpayer Relief Act of 2012 was signed into law, which, among other things, reduced Medicare payments to several providers, including hospitals, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. Recently, there has also been heightened governmental scrutiny over the manner in which drug manufacturers set prices for their marketed products, which has resulted in several Congressional inquiries and proposed bills designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products. The ultimate implementation of any healthcare reform legislation and any new laws and regulations, and its impact on us, is impossible to predict. Any significant reforms made to the healthcare system in the U.S., or in other jurisdictions, may have an adverse effect on our financial condition and results of operations.

Our business could be materially and adversely affected if we fail to defend and enforce our patents, if our products are found to infringe patents owned by others or if the cost of patent litigation becomes excessive or as our key patents expire.

We rely on a combination of patents, trademarks, copyrights, trade secrets, business methods, software and nondisclosure agreements to protect our proprietary intellectual property. Our efforts to protect our intellectual proprietary and proprietary rights may not be sufficient. Further, there is no assurance that patents pending will issue or that the protection from patents which have issued or may issue in the future will be broad enough to prevent competitors from introducing similar devices, that such patents, if challenged, will be upheld by the courts or that we will be able to prove infringement and damages in litigation.

We generally have multiple patents covering various features of a product, and as each patent expires, the protection afforded by that patent is no longer available to us, even though protection of features that are covered by other unexpired patents may continue to be available to us. The loss of patent protection on certain features of our products may make it possible for others to manufacture and sell products with features similar to ours, which could adversely affect our business. In addition, our ability to enforce and protect our intellectual property rights may be limited in certain countries outside of the U.S., which could make it easier for competitors to obtain market position in such countries by utilizing technologies that are similar to those developed by us.

If others choose to manufacture and sell products similar to or substantially the same as our products, it could have a material adverse effect on our business through loss of unit volume or price erosion, or both, and could adversely affect our ability to secure new business.

In the past, we have faced patent infringement claims related to the Clave, the CLC2000 and Tego. We believe these claims had no merit, and all have been settled or dismissed. We may also face claims in the future. Any adverse determination on these claims related to our products, if any, could have a material adverse effect on our business.

From time to time we become aware of newly issued patents on medical devices, which we review to evaluate any infringement risk. We are aware of a number of patents for infusion connection systems that have been issued to others. While we believe these patents will not affect our ability to market our products, there is no assurance that these or other issued or pending patents might not interfere with our right or ability to manufacture and sell our products.

There has been substantial litigation regarding patent and other intellectual property rights in the medical device industry. Patent infringement litigation, which may be necessary to enforce patents issued to us or to defend ourselves against claimed infringement of the rights of others, can be expensive and may involve a substantial commitment of our resources which may divert resources from other uses. Adverse determinations in litigation or settlements could subject us to significant liabilities to third parties, could require us to seek licenses from third parties, could prevent us from manufacturing and selling our products or could fail to prevent competitors from manufacturing products similar to ours. Any of these results could materially and adversely affect our business.

Our ability to market our products in the U.S. and other countries may be adversely affected if our products fail to comply with the applicable standards of the FDA and regulatory agencies in other countries.

We and our products are subject to extensive regulation in the United States and elsewhere, including by the FDA and its foreign counterparts. The FDA and foreign regulatory agencies regulate, among other things, with respect to medical devices: design, development and manufacturing; testing, labeling, content and language of instructions for use and storage; clinical trials; product safety; establishment registration and device listing; marketing, sales and distribution; premarket clearance and approval; record keeping procedures; advertising and promotion; recalls and field safety corrective actions; postmarket surveillance, including reporting of deaths or serious injuries and malfunctions that, if they were to recur, could lead to death or serious injury; post-market approval studies; and product import and export.

In the U.S., our device products are subject to clearance or approval by the U.S. FDA under the Food, Drug and Cosmetics Act ("FDC Act"). Before we can market a new medical device, or a new use of, new claim for, or significant modification to, an existing product, we must first receive either clearance under Section 510(k) of the FDC Act or approval of a premarket approval, or PMA, application from the FDA, unless an exemption applies. Under the 510(k) process, the manufacturer must submit to the FDA a premarket notification, demonstrating that the device is "substantially equivalent," as defined in the statute, to a legally marketed predicate device. To be "substantially equivalent," the proposed device must have the same intended use as the predicate device, and either have the same technological characteristics as the predicate device or have different technological characteristics and not raise different questions of safety or effectiveness than the predicate device. If the manufacturer is unable to demonstrate substantial equivalence to FDA's satisfaction, or if there is no available predicate device, then the manufacturer may be required to seek approval through the PMA application process, which is generally more costly and time consuming than the 510(k) process. Through the PMA application process, the applicant must submit data and information demonstrating reasonable assurance of the safety and effectiveness of the device for its intended use to the FDA's satisfaction. Accordingly, a PMA application typically includes, but is not limited to, extensive technical information regarding device design and development, pre-clinical and clinical trial data, manufacturing information, labeling and financial disclosure information for the clinical investigators in device studies.

Each of our current products has qualified, and we anticipate that any new products we are likely to market will qualify for clearance under the FDA's expedited pre-market notification procedure pursuant to Section 510(k) of the FDC Act. However, certain of our new products may require a longer time for clearance than we have experienced in the past and there can be no assurance that a PMA application will not be required. Further, there is no assurance that other new products developed by us or any manufacturers that we might acquire will qualify for expedited clearance rather than a more time consuming pre-market approval procedure or that, in any case, they will receive clearance from the FDA. FDA regulatory processes are time consuming and expensive. Uncertainties as to the time required to obtain FDA clearances or approvals could adversely affect the timing and expense of new product introductions.

The regulations to which we are subject are complex and have tended to become more stringent over time. Regulatory changes could result in restrictions on our ability to continue or expand our operations, higher than anticipated costs, or lower

than anticipated sales. The FDA enforces these regulatory requirements through periodic unannounced inspections. We do not know whether we will pass any future FDA inspections. Even after we have obtained the proper regulatory clearance or approval to market a product, we have ongoing responsibilities under FDA regulations and applicable foreign laws and regulations. The FDA, state and foreign regulatory authorities have broad enforcement powers. Our failure to comply with applicable regulatory requirements could result in enforcement action by the FDA, state or foreign regulatory authorities which may include any of the following sanctions:

- untitled letters or warning letters;
- fines, injunctions, consent decrees and civil penalties;
- recalls, termination of distribution, administrative detention, or seizure of our products;
- customer notifications or repair, replacement or refunds;
- operating restrictions or partial suspension or total shutdown of production;
- delays in or refusal to grant our requests for future 510(k) clearances, PMA approvals or foreign regulatory approvals of new products, new intended uses, or modifications to existing products;
- withdrawals or suspensions of current 510(k) clearances or PMAs or foreign regulatory approvals, resulting in prohibitions on sales of our products;
- FDA refusal to issue certificates to foreign governments needed to export products for sale in other countries; and
- criminal prosecution.

The FDA's and other regulatory authorities' policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the U.S. or abroad. For example, certain policies of the Trump Administration may impact our business and industry. Namely, the Trump Administration has taken several executive actions, including the issuance of a number of Executive Orders, that could impose significant burdens on, or otherwise materially delay, FDA's ability to engage in routine regulatory and oversight activities such as implementing statutes through rulemaking, issuance of guidance, and review and approval of marketing applications. It is difficult to predict how these requirement will be implemented, and the extent to which they will impact the FDA's ability to exercise its regulatory authority. If these executive actions impose constraints on FDA's ability to engage in oversight and implementation activities in the normal course, our business may be negatively impacted.

In addition, the FDA may change its clearance and approval policies, adopt additional regulations or revise existing regulations, or take other actions which may prevent or delay approval or clearance of our future products under development. For example, in November 2018, FDA officials announced forthcoming steps that the FDA intends to take to modernize the premarket notification pathway under Section 510(k) of the FDC Act. Among other things, the FDA announced that it plans to develop proposals to drive manufacturers using the 510(k) pathway toward the use of newer predicates. These proposals include plans to potentially sunset certain older devices that were used as predicates under the 510(k) clearance pathway, and to potentially publish a list of devices that have been cleared on the basis of demonstrated substantial equivalence to predicate devices that are more than 10 years old. The FDA also announced that it intends to finalize guidance to establish a premarket review pathway for "manufacturers of certain well-understood device types" as an alternative to the 510(k) clearance pathway and that such premarket review pathway would allow manufacturers to rely on objective safety and performance criteria recognized by the FDA to demonstrate substantial equivalence, obviating the need for manufacturers to compare the safety and performance of their medical devices to specific predicate devices in the clearance process. These proposals have not yet been finalized or adopted, and the FDA announced that it would seek public feedback prior to publication of any such proposals, and may work with Congress to implement such proposals through legislation. Accordingly, it is unclear the extent to which any proposals, if adopted, could impose additional regulatory requirements on us that could delay our ability to obtain new 510(k) clearances, increase the costs of compliance or restrict our ability to maintain our current clearances, or otherwise create competition that may negatively affect our business.

Modifications to our products may require us to obtain new clearances or approvals, and if we market modified products without obtaining necessary clearances or approvals, we may be required to cease marketing or recall the modified products until required approvals are obtained.

Certain modifications to a cleared or approved device may require a new clearance or approval, or alternatively a notification or other submission to FDA. The FDA may not agree with our decisions regarding whether a new regulatory submission is necessary. We may make modifications to our approved devices in the future that we believe do not require a new clearance or approval. If the FDA disagrees with our determination and requires us to submit a new submission for modifications to our previously approved products, we may be required to cease marketing or to recall the modified product until we obtain approval, and we may be subject to significant regulatory fines or penalties. In addition, the FDA may not clear or approve our products for the indications that are necessary or desirable for successful commercialization, or could require

clinical trials to support any modifications. Any delay or failure in obtaining required approvals would adversely affect our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth.

If we or our component manufacturers fail to comply with the FDA's Quality System Regulation or Good Manufacturing Practice regulations or other requirements, our manufacturing operations could be interrupted, and our product sales and operating results could suffer.

We and some of our component manufacturers are required to comply with regulatory requirements known as the FDA's Quality System Regulation, or QSR, a complex regulatory scheme which covers the procedures and documentation of the design, testing, production, control, quality assurance, inspection, complaint handling, recordkeeping, management review, labeling, packaging, sterilization, storage and shipping of our device products. The FDA's current Good Manufacturing Practices, or cGMPs apply to the manufacture of medical device components and finished medical devices. The FDA audits compliance with these regulatory requirements through periodic announced and unannounced inspections of manufacturing and other facilities. The FDA may conduct inspections or audits at any time, and we and some of our component suppliers are subject to such inspections. Although we believe our manufacturing facilities and those of our critical component suppliers are in compliance with the QSR requirements, and with applicable cGMPs for our products, we cannot provide assurance that any future inspection will not result in adverse findings. If our manufacturing facilities or those of any of our component suppliers are found to be in violation of applicable laws and regulations, or we or our suppliers have significant noncompliance issues or fail to timely and adequately respond to any adverse inspectional observations or product safety issues, or if any corrective action plan that we or our suppliers propose in response to observed deficiencies is not sufficient, the FDA could take enforcement action, including any of the following sanctions:

- untitled letters or warning letters;
- fines, injunctions, consent decrees and civil penalties;
- customer notifications or repair, replacement, refunds, recall, detention or seizure of our products;
- operating restrictions or partial suspension or total shutdown of production;
- refusing or delaying our requests for clearance or approval of new products or modified products;
- withdrawing clearances or approvals that have already been granted;
- refusal to grant export approval for our products; or
- criminal prosecution.

Any of these sanctions could adversely affect our business, financial conditions and operating results.

To market our products in the European Community ("EC"), we must conform to additional requirements of the EC and demonstrate conformance to established quality standards and applicable directives. As a manufacturer that designs, manufactures and markets its own devices, we must comply with the quality management standards of ISO 13485 (2012). Those quality standards are similar to the FDA's Quality System Regulations. Manufacturers of medical devices must also be in conformance with EC Directives such as Council Directive 93/42/EEC ("Medical Device Directive") and their applicable annexes. Those regulations assure that medical devices are both safe and effective and meet all applicable established standards prior to being marketed in the EC. Once a manufacturer and its devices are in conformance with the Medical Device Directive, the "CE" Mark maybe affixed to its devices. The CE Mark gives devices an unobstructed entry to all the member countries of the EC. There is no assurance that we will continue to meet the requirements for distribution of our products in Europe.

In May 2017, the Medical Device Regulation entered into force to replace the Medical Device Directive, as amended. The Medical Device Regulation will apply after a three-year transition period and imposes stricter requirements for the marketing and sale of medical devices and grants EU Notified Bodies increased post-market surveillance authority. We may be subject to risks associated with additional testing, modification, certification, or amendment of our existing market authorizations, or we may be required to modify products already installed at our customers' facilities to comply with the official interpretations of these revised regulations.

Distribution of our products in other countries may be subject to regulation in those countries, and there is no assurance that we will obtain necessary approvals in countries in which we want to introduce our products.

The misuse or off-label use of our products may harm our reputation in the marketplace, result in injuries that lead to product liability suits or result in costly investigations, fines or sanctions by regulatory bodies if we are deemed to have engaged in the promotion of these uses, any of which could be costly to our business.

Our products have been cleared or approved by the FDA for specific indications. We train our marketing personnel and direct sales force to not promote our products for uses outside of the FDA-cleared or approved indications for use, known as "off-label uses." We cannot, however, prevent a physician from using our products off-label, when in the physician's independent professional medical judgment he or she deems it appropriate. There may be increased risk of injury to patients if physicians attempt to use our products off-label. Furthermore, the use of our products for indications other than those cleared or approved by the FDA or approved by any foreign regulatory body may not effectively treat such conditions, which could harm our reputation in the marketplace among physicians and patients.

If the FDA or any foreign regulatory body determines that our promotional materials or training constitute promotion of an off-label use, it could request that we modify our training or promotional materials or subject us to regulatory or enforcement actions, including the issuance or imposition of an untitled letter, which is used for violators that do not necessitate a warning letter, injunction, seizure, civil fine or criminal penalties. It is also possible that other federal, state or foreign enforcement authorities might take action under other regulatory authority, such as false claims laws, if they consider our business activities to constitute promotion of an off-label use, which could result in significant penalties, including, but not limited to, criminal, civil and administrative penalties, damages, fines, disgorgement, exclusion from participation in government healthcare programs and the curtailment of our operations.

In addition, physicians may misuse our products or use improper techniques if they are not adequately trained, potentially leading to injury and an increased risk of product liability. If our products are misused or used with improper technique, we may become subject to costly litigation by our customers or their patients. As described above, product liability claims could divert management's attention from our core business, be expensive to defend and result in sizeable damage awards against us that may not be covered by insurance.

Product liability claims could be costly to defend and could expose us to loss.

The use of our products exposes us to an inherent risk of product liability. The medical device industry has historically been subject to extensive litigation over product liability claims, and we cannot offer any assurance that we will not face product liability suits. Patients, healthcare workers, healthcare providers or others who claim that our products have resulted in injury could initiate product liability litigation seeking large damage awards against us. Costs of the defense of such litigation, even if successful, could be substantial. We maintain insurance against product liability and defense costs in the amount of \$10,000,000 per occurrence. There is no assurance that we will successfully defend claims, if any, arising with respect to products or that the insurance we carry will be sufficient. A successful claim against us in excess of insurance coverage could materially and adversely affect us, and result in substantial liabilities and reputational harm. Furthermore, there is no assurance that product liability insurance will continue to be available to us on acceptable terms.

In addition, regardless of merit or eventual outcome, product liability claims may result in:

- costs of litigation;
- distraction of management's attention from our primary business;
- the inability to commercialize our existing or new products;
- decreased demand for our products or, if cleared or approved, products in development;
- damage to our business reputation;
- product recalls or withdrawals from the market;
- withdrawal of clinical trial participants;
- substantial monetary awards to patients or other claimants; or
- loss of revenue.

While we may attempt to manage our product liability exposure by proactively recalling or withdrawing from the market any defective products, any recall or market withdrawal of our products may delay the supply of those products to our customers and may impact our reputation. We can provide no assurance that we will be successful in initiating appropriate market recall or market withdrawal efforts that may be required in the future or that these efforts will have the intended effect of preventing product malfunctions and the accompanying product liability that may result. Such recalls and withdrawals may also be used by our competitors to harm our reputation for safety or be perceived by patients as a safety risk when considering the use of our products, either of which could have a material adverse effect on our business, financial condition and results of operations.

We may incur costs or losses relating to other litigation.

We may from time to time be involved in litigation. Legal proceedings are inherently unpredictable, and the outcome can result in judgments that affect how we operate our business, or we may enter into settlements of claims for monetary damages that exceed our insurance coverage, if any is available. Any such proceedings, regardless of merits, may result in substantial costs, the diversion of management's attention from other business concerns and additional restrictions on our business, which could disrupt our business and have an adverse effect on our financial condition.

Our products may cause or contribute to adverse medical events or be subject to failures or malfunctions that we are required to report to the FDA, and if we fail to do so, we would be subject to sanctions that could harm our reputation, business, financial condition and results of operations. The discovery of serious safety issues with our products, or a recall of our products either voluntarily or at the direction of the FDA or another governmental authority, could have a negative impact on us.

We are subject to the FDA's medical device reporting regulations and similar foreign regulations, which require us to report to the FDA when we receive or become aware of information that reasonably suggests that one or more of our products may have caused or contributed to a death or serious injury or malfunctioned in a way that, if the malfunction were to recur, it could cause or contribute to a death or serious injury. The timing of our obligation to report is triggered by the date we become aware of the adverse event as well as the nature of the event. We may fail to report adverse events of which we become aware within the prescribed timeframe. We may also fail to recognize that we have become aware of a reportable adverse event, especially if it is not reported to us as an adverse event or if it is an adverse event that is unexpected or removed in time from the use of the product. If we fail to comply with our reporting obligations, the FDA could take action, including warning letters, untitled letters, administrative actions, criminal prosecution, imposition of civil monetary penalties, revocation of our device clearances or approvals, seizure of our products or delay in clearance or approval of future products.

The FDA and foreign regulatory bodies have the authority to require the recall of commercialized products in the event of material deficiencies or defects in design or manufacture of a product or in the event that a product poses an unacceptable risk to health. The FDA's authority to require a recall must be based on a finding that there is reasonable probability that the device could cause serious injury or death. We may also choose to voluntarily recall a product if any material deficiency is found. A government-mandated or voluntary recall by us could occur as a result of an unacceptable risk to health, component failures, malfunctions, manufacturing defects, labeling or design deficiencies, packaging defects or other deficiencies or failures to comply with applicable regulations. Product defects or other errors may occur in the future.

Depending on the corrective action we take to redress a product's deficiencies or defects, the FDA may require, or we may decide, that we will need to obtain new clearances or approvals for the device before we may market or distribute the corrected device. Seeking such clearances or approvals may delay our ability to replace the recalled devices in a timely manner. Moreover, if we do not adequately address problems associated with our devices, we may face additional regulatory enforcement action, including FDA warning letters, product seizure, injunctions, administrative penalties or civil or criminal fines.

Companies are required to maintain certain records of recalls and corrections, even if they are not reportable to the FDA. We may initiate voluntary withdrawals or corrections for our products in the future that we determine do not require notification of the FDA. If the FDA disagrees with our determinations, it could require us to report those actions as recalls and we may be subject to enforcement action. A future recall announcement could harm our reputation with customers, potentially lead to product liability claims against us and negatively affect our sales. Any corrective action, whether voluntary or involuntary, as well as defending ourselves in a lawsuit, will require the dedication of our time and capital, distract management from operating our business and may harm our reputation and financial results.

We may be required to implement a costly product recall.

In the event that any of our products proves to be defective, we can voluntarily recall, or the FDA or other regulatory agencies could require us to redesign or implement a recall of, any of our products. We believe that any recall could result in significant costs to us and significant adverse publicity, which could harm our ability to market our products in the future. Though it may not be possible to quantify the economic impact of a recall, it could have a material adverse effect on our business, financial condition and results of operations.

We generally offer a limited warranty for product returns which are due to defects in quality and workmanship. We attempt to estimate our potential liability for future product returns and establish reserves on our financial statements in

amounts that we believe will be sufficient to address our warranty obligations; however, our actual liability for product returns may significantly exceed the amount of our reserves. If we underestimate our potential liability for future product returns, or if unanticipated events result in returns that exceed our historical experience, our financial condition and operating results could be materially and adversely affected.

### Geographic Risks

We are subject to risks associated with doing business outside of the U.S.

We operate in a global market and global operations are subject to a number of risks. Sales to customers outside of the U.S. made up approximately 25% of our revenue in 2018 and as our operations and sales located in Europe and other areas outside the U.S. increase, we may face new challenges and uncertainties, although we can give no assurance that such operations and sales will increase. In June 2016, the United Kingdom held a referendum in which voters approved an exit from the European Union (the "EU"), commonly referred to as "Brexit." Until the terms of the UK's exit from the EU are determined, including any transition period, it is difficult to predict its impact. It is possible that the withdrawal could, among other things, affect the legal and regulatory environments to which our businesses are subject, impact trade between the United Kingdom and the EU and other parties and create economic and political uncertainty in the region.

The risks associated with our operations outside the U.S. also include:

- healthcare reform legislation;
- changes in medical reimbursement policies and programs;
- changes in non-U.S. government programs;
- multiple non-U.S. regulatory requirements that are subject to change and that could restrict our ability to manufacture and sell our products;
- possible failure to comply with anti-bribery laws such as the U.S. Foreign Corrupt Practices Act and similar antibribery laws in other jurisdictions;
- different local medical practices, product preferences and product requirements;
- possible failure to comply with trade protection and restriction measures and import or export licensing requirements;
- difficulty in establishing, staffing and managing non-U.S. operations;
- different labor regulations or work stoppages or strikes:
- changes in environmental, health and safety laws;
- potentially negative consequences from changes in or interpretations of tax laws, including changes regarding taxation of income earned outside the U.S.;
- political instability and actual or anticipated military or political conflicts;
- economic instability, including the European financial crisis or other economic instability in other parts of the world and the impact on interest rates, inflation and the credit worthiness of our customers;
- uncertainties regarding judicial systems and procedures;
- minimal or diminished protection of intellectual property in some countries;
- imposition of government controls; and
- regulatory changes that may place our products at a disadvantage.

These risks, individually or in the aggregate, could have an adverse effect on our results of operations and financial condition. The occurrence or allegation of these types of risks may adversely affect our business, performance, prospects, value, financial condition, and results of operations.

Any significant changes in U.S. trade, tax or other policies that restrict imports or increase import tariffs could have a material adverse effect on our results of operations.

A significant amount of our products are manufactured outside of the U.S. In 2018, the U.S. imposed tariffs on steel and aluminum as well as on goods imported from China and certain other countries, which has resulted in retaliatory tariffs by China and other countries. Additional tariffs imposed by the U.S. on a broader range of imports, or further retaliatory trade measures taken by other countries in response, could prevent or make it difficult for us to obtain the components needed for new products which would affect our sales. Increased tariffs would require us to increase our prices which likely would decrease customer and consumer demand for our products. Any significant changes in current U.S. trade, tax or other policies could have a material adverse effect upon our results of operations.

International sales pose additional risks related to competition with larger international companies and established local companies and our possibly higher cost structure.

We have undertaken an initiative to increase our international sales, and have distribution arrangements in all the principal countries in Western Europe, the Pacific Rim, Middle East, Latin America, Canada and South Africa. We plan to sell in most other areas of the world. We export most of our products sold internationally from the U.S. and Mexico. Our principal competitors in international markets consist of much larger companies as well as smaller companies already established in the countries into which we sell our products. Our cost structure is often higher than that of our competitors because of the relatively high cost of transporting product to some local markets as well as our competitors' lower local labor costs in some markets.

Our international sales are subject to higher credit risks than sales in the U.S.. Many of our distributors are small and may not be well capitalized. Payment terms are relatively long. The European hospitals tend to be significantly slower in payment which has resulted in an increase to our days sales outstanding from previous years. Our prices to our international distributors, outside of Europe, for product shipped to the customers from the U.S., Costa Rica or Mexico are generally denominated in U.S. dollars, but their resale prices are set in their local currency. A decline in the value of the local currency in relation to the U.S. dollar may adversely affect their ability to profitably sell in their market the products they buy from us, and may adversely affect their ability to make payment to us for the products they purchase. Legal recourse for non-payment of indebtedness may be uncertain. These factors all contribute to a potential for credit losses.

We are increasingly dependent on manufacturing in Mexico, and could be adversely affected by increased labor costs and any economic, social or political disruptions.

We continue to expand our production in Mexico. Most of the material we use in manufacturing is imported into Mexico, and substantially all of the products we manufacture in Mexico are exported.

Business activity in the Ensenada area has expanded significantly, providing increased employment opportunities. This could have an adverse effect on our ability to hire or retain necessary personnel and result in an increase in labor rates. We continue to take steps to compete for labor through attractive employment conditions and benefits, but there is no assurance that these steps will continue to be successful or that we will not face increasing labor costs in the future.

Any political or economic disruption in Mexico or a change in the local economies could have an adverse effect on our operations. We depend on our ability to move goods across borders quickly, and any disruption in the free flow of goods across national borders could have an adverse effect on our business. Additionally, political and social instability resulting from violence in certain areas of Mexico has raised concerns about the safety of our personnel. These concerns may hinder our ability to send domestic personnel abroad and to hire and retain local personnel. Such concerns may require us to conduct more operations from the U.S. rather than Mexico, which may negatively impact our operations and result in higher costs and inefficiencies.

Our operations may be adversely impacted by our exposure to risks related to foreign currency exchange rates.

We market our products in certain foreign markets through our subsidiaries and other international distributors. The related sales agreements may provide for payments in a foreign currency. Accordingly, our operating results are subject to fluctuations in foreign currency exchange rates. When the U.S. dollar weakens against these currencies, the dollar value of foreign-currency denominated revenue and expense increases, and when the dollar strengthens against these currencies, the dollar value of foreign-currency denominated revenue and expense decreases. We are exposed to foreign currency risk on outstanding foreign currency denominated receivables and payables. Changes in exchange rates may adversely affect our results of operations. Our primary foreign currency exchange rate exposures are currently with the Euro, Mexican Peso, Costa Rican Colón, and the Canadian Dollar against the U.S. dollar. The withdrawal of the UK from the EU could also, among other things, create volatility in currency exchange rates.

We currently do not hedge against our foreign currency exchange rate risks, other than the Mexican Peso and therefore believe our exposure to these risks may be higher than if we entered into hedging transactions, including forward exchange contracts or similar instruments. If we decide in the future to enter into forward foreign exchange contracts to attempt to reduce the risk related to foreign currency exchange rates, these contracts may not mitigate the potential adverse impact on our financial results due to the variability of timing and amount of payments under these contracts. In addition, these types of contracts may themselves cause financial harm to us and have inherent levels of counter-party risk over which we would have no control.

We could be adversely affected by violations of the U.S. Foreign Corrupt Practices Act and other worldwide anti-bribery laws.

The Foreign Corrupt Practices Act and anti-bribery laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments for the purpose of obtaining or retaining business or other commercial advantage. Our policies mandate compliance with these anti-bribery laws, which often carry substantial penalties, including criminal and civil fines, potential loss of export licenses, possible suspension of the ability to do business with the federal government, denial of government reimbursement for products and exclusion from participation in government healthcare programs. We operate in jurisdictions that have experienced governmental and private sector corruption to some degree, and, in certain circumstances, strict compliance with anti-bribery laws may conflict with certain local customs and practices. We cannot assure that our internal control policies and procedures always will protect us from reckless or other inappropriate acts committed by our affiliates, employees, distributors or other agents. Violations of these laws, or allegations of such violations, could have a material adverse effect on our business, financial position and results of operations.

Changes in tax laws and unanticipated tax liabilities could adversely affect the Company's effective income tax rate and profitability.

The Company is subject to income taxes in the United States and numerous foreign jurisdictions. Although comprehensive U.S. tax legislation commonly referred to as the Tax Cuts and Jobs Act ("the Tax Act") enacted in December 2017 lowered the U.S. corporate income tax rate to 21%, the Company's effective income tax rate in the future could be adversely affected by a number of factors, including: changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation of deferred tax assets and liabilities, changes in tax laws and the outcome of income tax audits in various jurisdictions around the world. The Company regularly assesses all of these matters to determine the adequacy of its tax provision, which is subject to significant discretion.

The Tax Act is unclear in certain respects and could be subject to potential amendments and technical corrections, as well as interpretations and implementing regulations by the Treasury and Internal Revenue Service (IRS), any of which could lessen or increase certain adverse impacts of the legislation. In addition, it is unclear how these U.S. federal income tax changes will affect state and local taxation, which often uses federal taxable income as a starting point for computing state and local tax liabilities. While some of the changes made by the tax legislation may adversely affect the Company in one or more reporting periods and prospectively, other changes may be beneficial on a going forward basis.

#### ITEM 1B. UNRESOLVED STAFF COMMENTS

None

#### **ITEM 2. PROPERTIES**

Our corporate headquarters and the locations and uses of our principal manufacturing and other properties as of December 31, 2018, are as follows:

Location	Approximate Square Footage	Primary Use	Owned/Leased
San Clemente, California, U.S.	39,000	Corporate Headquarters and R&D	Owned
San Clemente, California, U.S.	28,108	Corporate Headquarters	Leased
San Diego, California, U.S.	44,779	Corporate Offices and R&D	Leased
Lake Forest, Illinois, U.S.	137,498	Corporate Offices	Leased
Montreal, Canada	48,065	Corporate Offices	Leased
Chennai, India	36,879	Corporate Offices	Leased
Rydalmere, NSW Australia	14,735	Corporate Offices/Device service center	Leased
Austin, Texas, U.S.	594,602	Manufacturing	Owned
Ensenada, Baja California, Mexico	265,021	Manufacturing	Owned
La Aurora, Costa Rica	626,869	Manufacturing	Owned
Salt Lake City, Utah, U.S.	450,000	Manufacturing	Owned
Farmers Branch, Texas, U.S.	66,060	Distribution Warehouse	Owned
King of Prussia, Pennsylvania, U.S.	105,571	Distribution Warehouse	Owned
Round Rock, Texas, U.S.	71,960	Distribution Warehouse	Owned
Santa Fe Springs, California, U.S.	76,794	Distribution Warehouse	Owned
San Jose, California, U.S.	78,119	Device service center	Leased
Sligo, Ireland	26,000	Device service center	Leased

In addition to the above, we own and lease additional office and building space, research and development, and sales and support offices primarily in North America, Europe, South America, and Asia. We believe our existing facilities, both owned and leased, are in good condition and suitable for the conduct of our business.

#### ITEM 3. LEGAL PROCEEDINGS

Certain legal proceedings in which we are involved are discussed in Part II, Item 8. "Financial Statements and Supplementary Data" of this Form 10-K in Note 15. Commitments and Contingencies to the Consolidated Financial Statements, and is incorporated herein by reference.

#### ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

#### PART II

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

Market Information for Common Stock

Our common stock has been traded on the NASDAQ Global Select Market under the symbol "ICUI" since our initial public offering on March 31, 1992. The following table sets forth, for the quarters indicated, the high and low sales price per share for our common stock quoted by NASDAQ:

2018	High	Low		
First quarter	\$ 265.27	\$	211.25	
Second quarter	\$ 313.20	\$	241.05	
Third quarter	\$ 321.70	\$	263.26	
Fourth quarter	\$ 286.28	\$	210.94	

2017	High	 Low		
First quarter	\$ 159.95	\$ 127.00		
Second quarter	\$ 175.73	\$ 144.25		
Third quarter	\$ 188.85	\$ 164.00		
Fourth quarter	\$ 225.38	\$ 180.45		

#### Dividends

We have never paid dividends and do not anticipate paying dividends in the foreseeable future as the Board of Directors intends to retain future earnings for use in our business or to purchase our shares. Any future determination as to payment of dividends or purchase of our shares will depend upon our financial condition, results of operations and such other factors as the Board of Directors deems relevant.

#### Stockholders

As of January 31, 2019, we had 128 stockholders of record. This does not include persons whose stock is in nominee or "street name" accounts through brokers.

Securities authorized for issuance under equity compensation plans are discussed in Part III, Item 12 of this Annual Report on Form 10-K.

#### **Issuer Repurchase of Equity Securities**

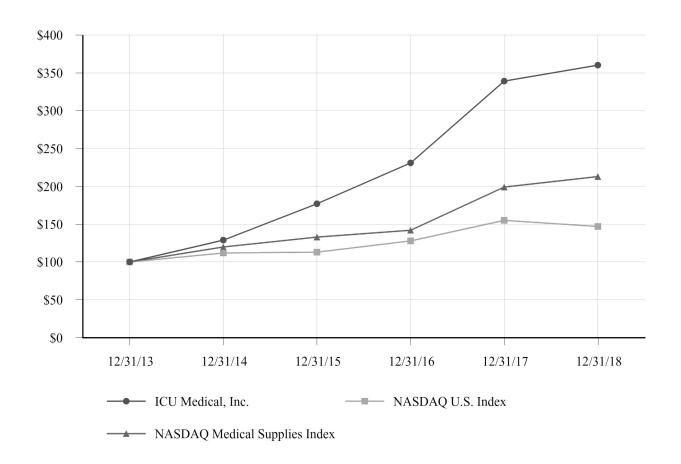
The following is a summary of our stock repurchasing activity during the fourth quarter of 2018:

Period	Shares purchased	Average price paid per share	Shares purchased as part of a publicly announced program	Approximate dollar value that may yet be purchased under the program <sup>(1)</sup>
10/01/2018 - 10/31/2018		\$ —		\$ 7,169,000
11/01/2018 - 11/30/2018	_	\$ —	_	7,169,000
12/01/2018 - 12/31/2018	_	\$ —	_	7,169,000
Fourth quarter 2018 total		\$ —		\$ 7,169,000

Our common stock purchase plan, which authorized the repurchase of up to \$40.0 million of our common stock, was authorized by our Board of Directors and publicly announced on July 19, 2010. This plan has no expiration date. We are not obligated to make any purchases under our stock purchase program. Subject to applicable state and federal corporate and securities laws, purchases under a stock purchase program may be made at such times and in such amounts as we deem appropriate. Purchases made under our stock purchase program can be discontinued at any time we feel additional purchases are not warranted.

# COMPARISON OF CUMULATIVE TOTAL RETURN FROM DECEMBER 31, 2013 TO DECEMBER 31, 2018 OF ICU MEDICAL, INC., NASDAQ AND NASDAQ MEDICAL SUPPLIES INDEX

The following graph shows the total stockholder return on our common stock based on the market price of the common stock from December 31, 2013 to December 31, 2018 and the total returns of the NASDAQ U.S. Index and NASDAQ Medical Supplies Index for the same period.



	12	/31/2013	12	12/31/2014		12/31/2015		2/31/2016	12	2/31/2017	12/31/2018		
ICU Medical, Inc.	\$	100.00	\$	128.55	\$	177.02	\$	231.28	\$	339.04	\$	360.43	
NASDAQ U.S. Index	\$	100.00	\$	112.46	\$	113.00	\$	127.70	\$	155.01	\$	146.57	
NASDAQ Medical Supplies Index	\$	100.00	\$	120.17	\$	132.87	\$	141.93	\$	198.67	\$	213.25	

Assumes \$100 invested on December 31, 2013 in ICU Medical Inc.'s common stock, the NASDAQ U.S. Index and the NASDAQ Medical Supplies Index and that all dividends, if any, were reinvested.

#### ITEM 6. SELECTED FINANCIAL DATA

The following selected consolidated financial data (presented in thousands, except per share amounts) is derived from our Consolidated Financial Statements. During 2017, we acquired HIS (see Note 2 to the consolidated financial statements in Part II, Item 8 of this Form 10-K). During 2018, we adopted Accounting Standards Codification ("ASC") 606, Revenue from Contracts with Customers, using the modified retrospective method applied to those contracts which were not completed as of January 1, 2018. The adoption of this standard did not have a material impact on our consolidated financial statements (see Note 4 to the consolidated financial statements in Part II, Item 8 of this Form 10-K). Our historical operating results are not necessarily indicative of future operating results and should be read in conjunction with the Consolidated Financial Statements and notes thereto, and with Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations.

				Yea	ar en	ded December	31,			
	(in thousands, except per share data)									
	_	2018	_	2017		2016		2015	_	2014
INCOME DATA:										
REVENUE										
Net sales	\$	1,400,040	\$	1,292,166	\$	379,339	\$	341,254	\$	308,770
Other				447		33		414		490
TOTAL REVENUE		1,400,040		1,292,613		379,372		341,668		309,260
COST OF GOODS SOLD		830,012		866,518		177,974		160,871		157,859
GROSS PROFIT		570,028		426,095		201,398		180,797		151,401
Selling, general and administrative expenses		328,146		303,953		89,426		83,216		88,939
Research and development expenses		52,867		51,253		12,955		15,714		18,332
Restructuring and strategic transaction		105,390		77,967		15,348		8,451		5,093
Contract settlement		41,613		_		_		_		_
Change in fair value of contingent earn-out		20,400		8,000		_		_		_
Gain on sale of assets		_		_		_		(1,086)		_
Legal settlements		_		_		_		1,798		_
Impairment of assets held for sale		_		_		728		4,139		_
TOTAL OPERATING EXPENSES		548,416		441,173		118,457		112,232		112,364
INCOME (LOSS) FROM OPERATIONS		21,612		(15,078)		82,941		68,565		39,037
BARGAIN PURCHASE GAIN		_		70,890		1,456		_		_
INTEREST EXPENSE		(709)		(2,047)		(118)		(39)		_
OTHER INCOME (EXPENSE), net		1,471		(2,482)		885		1,173		755
INCOME BEFORE INCOME TAXES		22,374		51,283		85,164		69,699		39,792
BENEFIT (PROVISION) FOR INCOME										
TAXES		6,419		17,361		(22,080)		(24,714)		(13,457)
NET INCOME	\$	28,793	\$	68,644	\$	63,084	\$	44,985	\$	26,335
NET INCOME PER SHARE										
Basic	\$	1.41	\$	3.50	\$	3.90	\$	2.84	\$	1.72
Diluted	\$	1.33	\$	3.29	\$	3.66	\$	2.73	\$	1.68
WEIGHTED AVERAGE NUMBER OF SHARES										
Basic		20,394		19,614		16,168		15,848		15,282
Diluted		21,601		20,858		17,254		16,496		15,647
Cash dividends per share	\$	_	\$	_	\$	_	\$	_	\$	_
CASH FLOW DATA:										
Total cash flows from operations	\$	160,215	\$	154,423	\$	89,941	\$	64,195	\$	66,340

	As of December 31,											
	(in thousands)											
		2018		2017		2016		2015		2014		
BALANCE SHEET DATA:												
Cash, cash equivalents and short-term investment securities	\$	382,110	\$	300,133	\$	445,082	\$	377,397	\$	346,764		
Working capital	\$	677,747	\$	654,370	\$	528,560	\$	462,389	\$	403,801		
Total assets	\$	1,585,391	\$	1,496,951	\$	704,688	\$	626,825	\$	541,102		
Stockholders' equity	\$	1,263,655	\$	1,198,254	\$	660,155	\$	579,871	\$	508,252		

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

The following discussion should be read in conjunction with our Consolidated Financial Statements and Notes thereto.

#### **Business Overview and Highlights**

During 2018, we continued to integrate Pfizer's HIS business, which we acquired on February 3, 2017. See "Acquisitions" below for additional detail regarding the acquisition. We are now one of the world's leading pure-play infusion therapy companies. We develop, manufacture and sell innovative medical products used in infusion therapy and critical care applications. Our product portfolio includes IV smart pumps, sets, connectors, closed system transfer devices for hazardous drugs, sterile IV solutions, cardiac monitoring systems, along with pain management and safety software technology designed to help meet clinical, safety and workflow goals.

#### **Consolidated Results of Operations**

The following table summarizes our total worldwide revenue by domestic and international markets by amount and as a percentage of total revenue (in millions, except percentages):

Year Ended December 3	31	l	•
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		2018			2017	2016			
	\$	% of Revenue	\$		% of Revenue		\$	% of Revenue	
Domestic	\$ 1,054.7	75%	\$	980.0	76%	\$	261.7	69%	
International	345.3	25%		312.6	24%		117.7	31%	
Total Revenue	\$ 1,400.0	100%	\$	1,292.6	100%	\$	379.4	100%	

The following table sets forth, for the periods indicated, total revenue by product line as a percentage of total revenue:

Product line	2018	2017	2016
Infusion Consumables	35%	28%	86%
IV Solutions	36%	40%	%
Infusion Systems	25%	23%	%
Critical Care	4%	4%	14%
Other	%	5%	%
	100%	100%	100%

We manage our product distribution in the U.S. through a network of four owned distribution facilities, as well as, through direct channels, which include independent distributors and the end users of our products, and as original equipment manufacturer suppliers. Most of our independent distributors handle the full line of our products. Internationally, we manage our operations through the Netherlands, which utilizes international regional hubs and we also manage our operations through independent distributors.

A substantial amount of our products are sold to group purchasing organization ("GPO") member hospitals. We believe that as healthcare providers continue to either consolidate or join major buying organizations, the success of our products will depend, in part, on our ability, either independently or through strategic relationships to secure long-term contracts with large healthcare providers and major buying organizations. As a result of this marketing and distribution strategy we derive most of our revenue from a relatively small number of distributors and manufacturers. Although we believe that we are not dependent on any single distributor for distribution of our products, the loss of a strategic relationship with a customer or a decline in demand for our products could have a material adverse effect on our operating results.

We believe that achievement of our growth objectives worldwide will require increased efforts by us in sales and marketing and product acquisition and development; however, there is no assurance that we will be successful in implementing our growth strategy. Product development or acquisition efforts may not succeed, and even if we do develop or acquire additional products, there is no assurance that we will achieve profitable sales of such products. Increased expenditures for sales and marketing and product acquisition and development may not yield desired results when expected, or at all. While we have taken steps to control these risks, there are certain risks that may be outside of our control, and there is no assurance that steps we have taken will succeed.

#### Seasonality/Quarterly Results

There are no significant seasonal aspects to our business. We can experience fluctuations in net sales as a result of variations in the ordering patterns of our largest customers, which may be driven more by production scheduling and their inventory levels, and less by seasonality. Our expenses often do not fluctuate in the same manner as net sales, which may cause fluctuations in operating income that are disproportionate to fluctuations in our revenue.

#### **Significant Acquisitions**

On February 3, 2017, we acquired 100% interest in Pfizer's HIS business for total consideration of approximately \$260.0 million in cash (net of estimated working capital adjustments paid at closing) and the issuance of 3.2 million shares of our common stock. As of December, 31, 2018, Pfizer has sold all of their shares of our common stock. We partially funded the cash portion of the consideration paid with a \$75 million three-year interest-only seller note. The fair value of the common shares issued to Pfizer was determined based on the closing price of our common shares on the issuance date, discounted to reflect a contractual lock-up period whereby Pfizer cannot transfer the shares, subject to certain exceptions, until the earlier of (i) the expiration of Pfizer's services to us in the related transitional services agreement or (ii) eighteen months. Pfizer also may be entitled up to an additional \$225 million in cash contingent consideration based on the achievement of performance targets for the combined company for the three years ending December 31, 2019.

See Note 2 to the consolidated financial statements in Part II, Item 8 of this Form 10-K for further details of our acquisitions.

#### Five-year Revolving Credit Facility ("Credit Facility")

On November 8, 2017, we entered into a five-year Revolving Credit Facility ("Credit Facility") with various lenders for \$150 million, with Wells Fargo Bank, N.A. as the administrative agent. The Credit Facility has an accordion feature that would enable us to increase the borrowing capacity of the credit facility by the greater of (i) \$100 million and (ii) 2.00x Total Leverage (as defined in our Credit Facility). Under the terms of the facility we will be subject to certain financial covenants pertaining to leverage and fixed charge coverage ratios, see below under "Liquidity and Capital Resources" for further details. Borrowings under the Credit Facility will bear interest, at our option, based on the Base Rate plus applicable margin or LIBOR plus an applicable margin, both tied to the leverage ratio in effect. The unused portion of the Credit Facility will be subject to a per annum commitment fee which is also calculated using the leverage ratio in effect. The Credit Facility was entered into in order to provide us with flexible funding for future acquisition and operational needs.

In connection with the Credit Facility, during 2017, we incurred \$1.4 million in financing costs, which are being amortized to interest expense over the remaining term of the Credit Facility.

See Note 11 to the consolidated financial statements in Part II, Item 8 of this Form 10-K for further information regarding the Credit Facility.

We present summarized income statement data in Item 6. Selected Financial Data. The following table shows, for the three most recent years, the percentages of each income statement caption in relation to total revenues.

	Perce	Percentage of Revenues					
	2018	2017	2016				
Revenue							
Net sales	100 %	100 %	100 %				
Other	<u> </u>	— %	<b>—</b> %				
Total revenues	100 %	100 %	100 %				
Gross margin	41 %	33 %	53 %				
Selling, general and administrative expenses	23 %	24 %	24 %				
Research and development expenses	4 %	4 %	3 %				
Restructuring and transaction expense	8 %	6 %	4 %				
Change in fair value of contingent earn-out	1 %	1 %	— %				
Contract settlement	3 %	— %	— %				
Impairment of assets held for sale	<u> </u>	— %	— %				
Total operating expenses	39 %	35 %	31 %				
Income (loss) from operations	2 %	(2)%	22 %				
Bargain Purchase Gain	— %	5 %	— %				
Interest expense	— %	— %	— %				
Other (expense) income, net	— %	— %	— %				
Income before income taxes	2 %	3 %	22 %				
(Benefit) Provision For Income taxes	— %	(1)%	6 %				
Net income	2 %	4 %	16 %				

Total revenues for 2018, 2017 and 2016 were \$1.4 billion, \$1.3 billion and \$379.4 million, respectively.

#### Infusion Consumables

The following table summarizes our total Infusion Consumables revenue (in millions, except percentages):

	Year	ar Ended December 31,					\$ change % change			\$ change % change			
	 2018		2017		2016		2018 ove	r 2017		2017 ov	er 2016		
Infusion Consumables	\$ 483.0	\$	365.6	\$	324.9	\$	117.4	32.1%	\$	40.7	12.5%		

The increase in Infusion Consumables revenue in 2018, as compared to 2017 was primarily driven by three factors, (i) the classification of revenue related to certain foreign jurisdiction HIS entities with deferred closes during 2017 as "Other Revenue" for 2017, due to the fact that we were unable to allocate the revenue to a specific product line, (ii) the addition of new customers in Infusion for IV therapy and oncology products in 2018, and (iii) the completion of acquisitions in 2018. In addition, 2017 includes approximately eleven months of revenue from the point of closing of the HIS transaction to the end of the year.

In 2017, our Infusion Consumables revenue included our acquired revenue from the HIS business, which included approximately eleven months of revenue from the point of closing of the transaction to the end of 2017, as well as our legacy Infusion Therapy and Oncology businesses. In 2016, our Infusion Consumables revenue as presented above consisted of our legacy Infusion Therapy and Oncology businesses.

#### IV Solutions

The following table summarizes our total IV Solutions revenue (in millions, except percentages):

	Year Ended December 31,						\$ change % change			\$ change % chang		
	2018		2017		2016		2018 ove	r 2017		2017 ov	er 2016	
IV Solutions	\$ 508.0	\$	522.0	\$		\$	(14.0)	(2.7)%	\$	522.0	*	

<sup>\*</sup> Not Applicable

In 2017, competitor supply constraints were significantly reduced in the second half of the year. We temporarily benefited from those supply constraints. Beginning in 2018, supply normalized, which eventually normalized customers demand. IV Solutions revenue for 2017 also includes approximately eleven months of revenue from the point of closing of the HIS transaction to the end of the year.

#### Infusion Systems

The following table summarizes our total Infusion Systems revenue (in millions, except percentages):

	Year Ended December 31,						hange	% change	\$	change	% change
	2018	2017		2016		2018 over 2017			2017 over 2016		
Infusion Systems	\$ 355.5	\$	290.2	\$		\$	65.3	22.5%	\$	290.2	*

<sup>\*</sup> Not Applicable

Infusion Systems revenue increased in 2018, as compared to 2017, primarily due to the revenue related to certain foreign jurisdiction HIS entities that had deferred closes during 2017. The revenue related to these deferred close entities in 2017 was included in "Other Revenue", as we were unable to allocate the revenue to a specific product line. In addition, 2017 includes approximately eleven months of revenue from the point of closing of the HIS transaction to the end of the year.

#### Critical Care

The following table summarizes our total Critical Care revenue (in millions, except percentages):

	 Year Ended December 31,						change	% change	\$	change	% change	
	2018		2017		2016	2018 over 2017				2017 over 2016		
Critical Care	\$ 53.5	\$	50.0	\$	53.6	\$	3.5	7.0%	\$	(3.6)	(6.7)%	

In 2018, Critical Care revenue increased, as compared to 2017, primarily due to new product shipments of the Cogent patient monitor and due to timing of orders. In 2017, Critical Care revenue slightly decreased, as compared to 2016, due to timing of orders.

#### Revenue from Deferred Close Entities

As part of the HIS business acquisition, the closing of certain foreign jurisdictions were deferred, as such, we entered into a Net Economic Benefit agreement with Pfizer (see Note 2 to the consolidated financial statements in Part II, Item 8 of this Form 10-K for additional information). The revenue data related to these deferred closing entities was not available by product line, therefore our revenue by product line for 2017 described above did not include amounts related to these entities. All of the deferred closing entities were effectively closed in 2018, which allowed for allocation of all of the revenue to a specific product line for 2018.

The following table summarizes our revenue from our deferred close entities (in millions):

		Year Ended December 31,						change	% change	\$ c	\$ change % cha				
	201	2018 2017			2016 2018 ov			r 2017		2017 ov	er 2016				
Revenue from Deferred Close Entities	\$	_	\$	64.4	\$	_	\$	(64.4)	*	\$	64.4	*			

<sup>\*</sup> Not meaningful.

#### **Gross Margins**

Gross margins for 2018, 2017 and 2016 were 40.7%, 33.0%, and 53.1%, respectively.

The increase in gross margin in 2018, as compared to 2017, was primarily due to a change in product mix related to increased Infusion Consumables and increased factory efficiencies. 2017 was negatively impacted by the step-up of inventory from the purchase accounting related to the HIS acquisition.

The decrease in gross margin in 2017, as compared to 2016, was primarily due to the integration of HIS, which has historically had lower gross margins than our legacy business. Additionally, there was an impact of approximately five percentage points related to the step-up of inventory from our purchase accounting and also a temporary negative impact on absorption due to our planned inventory reduction.

#### Selling, General and Administrative ("SG&A") Expenses

The following table summarizes our SG&A expenses (in millions, except percentages):

	 Year	Ende	d Decemb	er 3	81,	\$	change	% change	\$ 0	change	% change	
	2018	2017			2016		2018 over 2017			2017 over 2016		
SG&A	\$ 328.1	\$	304.0	\$	89.4	\$	24.1	7.9%	\$	214.6	240.0%	

Consolidated SG&A expense increased in 2018, as compared to 2017, primarily attributable to the impact of the integration of HIS as we incurred duplicative costs as we added resources to stand up the business that will replace the services provided under the transitional services agreement with Pfizer. Compensation expense increased \$19.5 million, information technology expense increased \$7.7 million, realized foreign exchange losses increased \$5.7 million, marketing expenses increased \$4.5 million, legal expenses increased \$3.5 million, travel expenses increased \$3.3 million and dealer fees increased \$2.2 million. Offsetting these increases was a \$23.9 million decrease in consulting expenses and decreases in other miscellaneous expenses. Compensation increased due to an increase in headcount from new employees hired to support the company post-acquisition of HIS. Information technology expense increases were due to the HIS post-acquisition needs to stand up the company. Realized foreign exchange losses increased due to changes in the rate and increased foreign monetary account balances. Marketing expenses increased primarily due to the continued integration of HIS and the post-acquisition operational activity. Legal expenses increased due to the continued integration of HIS and legal services needed to support a larger business. Travel expense increased as a result of the operational needs of the company. Dealer fees increased due to the increase in revenue.

Consolidated SG&A expense increased \$214.6 million in 2017, as compared to 2016, primarily due to the impact of the HIS acquisition. Compensation increased \$83.7 million, accounting and information technology fees increased \$72.4 million, depreciation expense increased \$16.0 million, computer hardware and software increased \$11.5 million, travel and related expenses increased \$5.8 million and rent expense increased \$3.3 million. Compensation increased primarily due to an increase in headcount related to the HIS acquisition, and from new employees hired to support the company post-acquisition. Accounting and information technology fees increased due to the expenses incurred under the transition services agreement with Pfizer. Depreciation expense increased due to the depreciation of the HIS assets acquired. Computer hardware and software increases were due to the post-acquisition needs to stand up the company. Travel and related expenses increased primarily due to the integration of the HIS acquisition and the post-acquisition operational activity. Rent expense increased due to the operating leases assumed on acquired HIS properties.

#### Research and Development ("R&D") Expenses

The following table summarizes our total R&D Expenses (in millions, except percentages):

	Year Ended December 31,					\$	change	% change	\$ change		% change
	2018	2017			2016		2018 over 2017			2017 ove	er 2016
R&D	\$ 52.9	\$	51.3	\$	13.0	\$	1.6	3.1%	\$	38.3	294.6%

In 2018, as compared to 2017, R&D expenses increased due to post-acquisition operational activity attributable to a larger business and 2017 includes approximately eleven months of R&D expense from the point of closing of the transaction to the end of the year.

In 2017, as compared to 2016, R&D expenses increased due to the acquisition of HIS.

#### Restructuring and Strategic Transaction Expenses

Restructuring and strategic transaction expenses were \$105.4 million, \$78.0 million and \$15.3 million in 2018, 2017 and 2016, respectively.

#### Restructuring Charges

In 2018, restructuring charges were \$4.5 million. These charges were related to (i) severance costs from the reduction in our workforce as a result of the continued integration of HIS. All material charges in regard to these restructuring activities have been paid as of December 31, 2018.

In 2017, restructuring charges were \$18.8 million. These charges were related to (i) severance costs from the reduction in our workforce needed to eliminate duplicative positions created as a result of the HIS acquisition and (ii) we closed our Dominican Republic manufacturing facility and incurred expenses associated with the closure and transfer of assets and production to our Costa Rica and Mexico manufacturing facilities. We have \$0.9 million in unpaid restructuring charges related to the year-ended December 31, 2017.

In 2016, restructuring charges were \$1.0 million. These charges were primarily related to residual expenses for the closure of our Slovakian manufacturing facility and we incurred \$0.2 million related to other restructuring activities.

Strategic Transaction and Integration Expenses

In 2018, we incurred \$100.9 million in strategic transaction and integration expenses primarily related to our continued integration of the HIS business and IT systems.

In 2017, we incurred \$59.2 million in strategic transaction and integration expenses primarily related to our acquisition of the HIS business.

In 2016, we incurred \$14.3 million in strategic transaction expenses related to our acquisitions, primarily the acquisition of the HIS business.

#### Change in fair value of contingent earn-out

In 2018, the fair value revaluation of our HIS contingent earn-out liability resulted in a change in fair value of \$20.4 million.

In 2017, the fair value revaluation of our HIS contingent earn-out liability resulted in a loss of \$8.0 million.

#### **Contract Settlement**

In 2018, we incurred a \$41.6 million charge related to the resolution of a dispute with a product partner, which resulted in a redefinition of our contractual arrangement and in the rights and remedies determined under such arrangement.

#### Impairment of Assets Held-for-Sale

During 2016, we completed the closure of our Slovakia manufacturing facility and sold the land and building held-forsale for \$3.3 million, net of costs to sell, resulting in an additional impairment loss of \$0.7 million.

#### Bargain Purchase Gain

In 2017, in connection with the HIS acquisition, we recognized a bargain purchase gain of \$70.9 million. The bargain purchase gain represented the excess of the estimated fair market value of the identifiable tangible and intangible assets acquired and liabilities assumed, net of deferred tax liabilities over the total purchase consideration. We determined that the bargain purchase gain was primarily attributable to expected restructuring costs as well as a reduction to the initially agreed upon transaction price caused primarily by revenue shortfalls across all market segments of the HIS business, negative manufacturing variance due to the drop in revenue and higher operating and required stand up costs, when compared to forecasts of the HIS business at the time that the purchase price was agreed upon.

In 2016, we recognized a bargain purchase gain of \$1.5 million in connection with the Tangent acquisition. The bargain purchase gain represented the excess of the estimated fair market value of the identifiable tangible and intangible assets acquired and liabilities assumed, net of deferred tax assets over the total purchase consideration. The bargain purchase was driven by our ability to realize acquired deferred tax assets.

#### Interest Expense

Interest expense was \$0.7 million, \$2.0 million and \$0.1 million in 2018, 2017 and 2016, respectively.

In 2018, the interest expense was related to amortization of the financing cost incurred in 2017 in connection with the five-year Revolving Credit Facility and a related per annum commitment fee charged on the unused portion of the revolver under such Credit Facility (see Note 11: Long-Term Obligations in our accompanying consolidated financial statements for additional information).

In 2017, the interest expense was related to (i) the \$75 million seller note from Pfizer as part of the HIS business acquisition and (ii) the per annum commitment fee charged on the unused portion of our revolver under the five-year \$150 million Credit Facility.

The three-year interest only seller note bore interest based on the London Interbank Offered Rate ("LIBOR") plus (i) 2.25% per year for the first 12 months, and (ii) 2.50% per annum thereafter. On November 8, 2017, we fully repaid the \$75 million in outstanding principal under the senior note payable to Pfizer.

The per annum commitment fee is based on consolidated total leverage ratio in effect and can range between 0.15% to 0.30% on the unused portion of the Credit Facility.

#### Other (Expense) Income

Other (expense) income was \$1.5 million, \$(2.5) million and \$0.9 million in 2018, 2017 and 2016, respectively. In 2018, other (expense) income included \$5.4 million of interest income primarily related to our banking and investment accounts offset by \$3.9 million loss on disposal of or write-off of property, plant and equipment.

#### Income taxes

Income taxes were accrued at an estimated annual effective tax rate of (29%), (34%) and 26% in 2018, 2017 and 2016, respectively.

The effective tax rate in 2018 differs from the federal statutory rate of 21% because of the effect of the mix of foreign and state incomes, state taxes and tax credits. The effective tax rate for 2018 also included a material tax benefit of \$12.6 million related to the excess tax benefits recognized on stock option exercises and the vesting of restricted stock units during the period.

On December 22, 2017, the Tax Act was enacted into law, which includes a broad range of provisions affecting businesses. The Tax Act significantly revises how companies compute their U.S. corporate tax liability by, among other provisions, reducing the corporate tax rate from 35% to 21% for tax years beginning after December 31, 2017. As of December 31, 2018, our accounting for the Tax Act is complete. As noted at 2017 year-end, we were able to reasonably estimate certain effects and, therefore, recorded provisional adjustments associated with the toll charge on undistributed foreign earnings and profits and revaluation of deferred taxes. Measurement-period adjustments for the toll charge and revaluation of deferred taxes recognized during the year ended December 31, 2018 did not have a material impact on our consolidated financial statements. The effect of the measurement-period adjustments on the 2018 effective tax rate was approximately a three percentage point increase. We continue to evaluate various international provisions included in the Tax Act due to the lack of Treasury Regulations and ongoing guidance. These provisions were effective for us beginning on January 1, 2018, and may materially impact our effective tax rate in future years. For the year ended December 31, 2018, we recorded an income tax expense of \$2.4 million for the global intangible low-taxed income (GILTI) provisions. For further discussion, see Note 12 to the consolidated financial statements in Part II, Item 8 of this Form 10-K.

The effective tax rate for 2017 differs from the federal statutory rate of 35% because of the effect of the mix of foreign and state incomes, state taxes, tax credits, and impact of the gain on bargain purchase. The tax effect of the gain on bargain purchase is treated as a discrete item part of purchase accounting and is not a component of the income tax provision. The effective tax rate during 2017 also included a tax benefit of \$20.8 million related to the excess tax benefits recognized on stock option exercises and the vesting of restricted stock units during the period.

As of December 31, 2017, we recorded income tax expense of \$3.1 million as a result of the Tax Act, which is comprised of \$1.1 million of income tax expense as a result of the re-measurement of deferred tax assets and liabilities at the new lower statutory tax rate of 21%, and a net tax expense of \$2.0 million as a result of the mandatory deemed repatriation on earnings and profits of U.S.-owned foreign subsidiaries. We elected to record the mandatory repatriation and re-measurement of deferred taxes as a provisional amount for the year ended December 31, 2017, which we believe is a reasonable estimate in accordance with the Tax Act.

The effective tax rate for 2016 differs from the federal statutory rate principally because of the effect of foreign and state income taxes, tax credits, deductions for domestic production activities, and included a material discrete tax benefit of \$7.6 million related to the excess tax benefits recognized on stock option exercises and the vesting of restricted stock units during the period.

#### **Liquidity and Capital Resources**

#### Introduction

Our primary sources of cash are cash flows from operating activities, proceeds from the exercise of employee options and available borrowings under our Credit Facility (as defined above). Our primary uses of cash are to meet working capital requirements, finance capital expenditures and acquisitions along with acquisition-related incremental transaction and integration costs.

During 2018, our cash, cash equivalents and short-term investment securities increased by \$82.0 million from \$300.1 million at December 31, 2017 to \$382.1 million at December 31, 2018. The increase was primarily due to our positive operating results and the reclassification of our long-term investment securities to short-term classification.

#### **Future Cash Flows**

#### Short-term

Our five-year \$150 million Credit Facility provides us with fast, flexible funding for future acquisition and operational needs.

Our short-term investment portfolio is invested in corporate bonds and our primary investment goal is capital preservation.

While we can provide no assurances, we estimate that our capital expenditures in 2019 will approximate \$95 million to \$105 million. We anticipate making additional investments in machinery and equipment in our manufacturing operations in Costa Rica, the U.S. and Mexico to support new and existing products, in infusion products that get placed with customers

outside the U.S., and in IT to benefit world-wide operations. We expect to use our cash and cash equivalents to fund our capital purchases. Amounts of spending are estimates and actual spending may substantially differ from those amounts.

We believe that our existing cash, cash equivalents along with funds expected to be generated from future operations will provide us with sufficient funds to finance our current operations for the next twelve months.

#### Long-term

Our long-term liquidity needs include interest/commitment payments on the Credit Facility, capital expenditures related to the expansion of our business and potential acquisitions in accordance with our growth strategy.

We are unable to project with certainty whether our long-term cash flow from operations and amounts available to us under our Credit Facility will be sufficient to fund our future capital expenditures and acquisitions as they arise. In the event that we experience illiquidity in our investment securities, downturns or cyclical fluctuations in our business that are more severe or longer than anticipated or if we fail to achieve anticipated revenue and expense levels, we may need to obtain or seek alternative sources of capital or financing, and we can provide no assurances that the terms of such capital or financing will be available to us on favorable terms, if at all.

#### Credit Facility

Our five-year Credit Facility includes \$150 million borrowing capacity available for revolving credit loans and may also be used to borrow, on same-day notice under a swingline, the lesser of \$10 million and the aggregate unused amount of the revolving credit available. As of December 31, 2018, we had no borrowings and \$150 million of availability under the revolving credit facility.

All of our obligations under the Credit Facility are guaranteed by ICU Medical, Inc. and certain of our existing subsidiaries. The obligations under the Credit Facility are secured by a pledge of 100% of the capital stock of certain subsidiaries owned by us and a security interest in substantially all of our tangible and intangible assets and the tangible and intangible assets of each guarantor.

The Credit Facility contains certain financial covenants pertaining to Consolidated Fixed Charge Coverage and Consolidated Total Leverage ratios, see below under "Financial Covenants". In addition, the Credit Facility has restrictions pertaining to limitations on debt, liens, negative pledges, loans, advances, acquisitions, other investments, dividends, distributions, redemptions, repurchases of equity interests, fundamental changes and asset sales and other dispositions, prepayments, redemptions and purchases of subordinated debt and other junior debt, transactions with affiliates, dividend and payment restrictions affecting subsidiaries, changes in line of business, fiscal year and accounting practices and amendment of organizational documents and junior debt documents.

#### Financial Covenants

The Credit Facility contains certain negative financial covenants, including, Consolidated Total Leverage and Consolidated Fixed Charge Coverage Ratios.

The Consolidated Leverage Ratio is defined as the ratio of Consolidated Total Funded Indebtedness on such date, to Consolidated Adjusted EBITDA, as defined under the Credit Facility Agreement, for the most recently completed four fiscal quarters. The maximum Consolidated Leverage Ratio is not more than 3.00 to 1.00.

The Consolidated Fixed Charge Coverage Ratio is defined as the ratio of: (a) Consolidated Adjusted EBITDA less the sum of (i) capital expenditures, (ii) federal, state, local and foreign income taxes paid in cash and (iii) cash restricted payments made after the closing date, to (b) Consolidated Fixed Charges for the most recently completed four fiscal quarters, calculated on a pro forma basis. The minimum Consolidated Fixed Charge Coverage Ratio is 2.00 to 1.00.

We were in compliance with all financial covenants as of December 31, 2018.

#### **Historical Cash Flows**

#### Cash Flows from Operating Activities:

Our cash provided by operations was \$160.2 million in 2018. Net income plus adjustments for non-cash net expenses contributed \$185.6 million to cash provided by operations. Net cash used in operations as a result of changes in operating assets and liabilities was \$25.4 million. The changes in operating assets and liabilities included a \$76.7 million increase in accounts receivable, a \$29.6 million decrease in accrued liabilities, a \$21.8 million increase in inventories and \$20.0 million in net changes in income taxes, including excess tax benefits and deferred income taxes. Offsetting these amounts was a \$97.4 million decrease in related party receivables and a \$23.3 million increase in accounts payable. The increase in accounts receivable is due to the increase in revenue and timing of collections. The decrease in accrued liabilities was primarily a result of the settlement of contract liabilities. The increase in inventory was primarily due to efforts to build-up the inventory level of certain products. The net changes in income taxes was a result of the timing of payments. The decrease in related-party receivables was a result of the Transition Services Agreement with Pfizer nearing its end. The increase in accounts payable was due to the timing of payments.

Our cash provided by operations was \$154.4 million in 2017. Net income plus adjustments for non-cash net expenses contributed \$98.5 million to cash provided by operations. Net cash provided by operations as a result of changes in operating assets and liabilities was \$55.9 million. The changes in operating assets and liabilities included a \$181.7 million decrease in inventories, a \$46.6 million increase in accounts payable, and a \$33.8 million increase in accounts receivable, a \$31.8 million increase in prepaid expenses and other assets, and a \$24.6 million net change in prepaid and deferred income taxes. The decrease in inventory was due to a planned inventory reduction of our acquired inventory to manage working capital needs. The increase in accounts payable was due to the increase in expenses related to the post-acquisition operations. The increase in accrued liabilities was primarily a result of increased salary and benefits due to a larger workforce. The increase in related-party receivables was primarily due to amounts paid for transitional service arrangement fees, working capital adjustments and other HIS-related amounts. The increase in prepaid expenses and other assets was primarily due to HIS post-acquisition operations. The increase in accounts receivable is due to the increase in revenue. The net changes in income taxes was a result of the timing of payments.

#### Cash Flows from Investing Activities

The following table summarizes the changes in our investing cash flows (in thousands):

	For the Yea	ars Ended De	Vari	ance	
	2018	2017	2016	2018	2017
<b>Investing Cash Flows:</b>					
Purchases of property, plant and equipment	\$ (92,720)	\$ (74,479)	\$ (23,361)	\$ (18,241)	\$ (51,118) (1)
Proceeds from sale of assets	765	2	_	763	2
Proceeds from the disposal of assets held-for-sale, net	13,000	_	3,268	13,000	$(3,268)^{(2)}$
Intangible asset additions	(8,059)	(5,203)	(1,192)	(2,856)	(4,011)
Business acquisitions, net of cash acquired	(1,300)	(162,448)	(2,584)	161,148	(159,864) <sup>(3)</sup>
Purchases of investment securities	(30,496)	(24,743)	(118,384)	(5,753)	93,641 (4)
Proceeds from sale of investment securities	15,440	_	158,534	15,440	(158,534) (5)
Net cash (used in) provided by investing activities	\$ (103,370)	\$ (266,871)	\$ 16,281	\$ 163,501	\$ (283,152)

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<sup>&</sup>lt;sup>(1)</sup>Our purchases of property, plant and equipment will vary from period to period based on additional investments needed to support new and existing products and expansion of our manufacturing facilities.

<sup>&</sup>lt;sup>(2)</sup> In 2018, we sold the land and building related to our Dominican Republic manufacturing facilities acquired as part of the 2017 HIS acquisition. In 2016, we sold our Slovakian manufacturing facilities for \$3.3 million, net of costs to sell of \$0.1 million.

<sup>(3)</sup> Our business acquisitions will vary from period to period based upon our current growth strategy and our ability to execute on desirable target companies. In 2018, we acquired the consulting arm of True Process Inc. for \$1.3 million. In 2017, we

acquired HIS for \$256 million in cash consideration (net of working capital adjustments), financed with existing cash balances and a three-year interest-only seller note of \$75 million and we delivered 3.2 million shares of our common stock to Pfizer and we acquired Fannin for \$1.5 million and MLA for \$9.0 million in cash consideration. In 2016, we acquired Tangent for \$2.6 million in cash.

#### Cash Flows from Financing Activities

The following table summarizes the changes in our financing cash flows (in thousands):

	For the Years Ended December 31,							Vari	an	ce
	2018			2017		2016	2018			2017
Financing Cash Flows:										
Repayment of long-term obligations	\$	_	\$	(75,000)	\$	_	\$	75,000	\$	$(75,000)^{(1)}$
Proceeds from exercise of stock options		14,275		32,003		17,346		(17,728)		14,657 (2)
Proceeds from employee stock purchase plan		_		2,705		2,361		(2,705)		344
Purchase of treasury stock/tax withholding payments on net share settlement of equity awards		(6,252)		(4,057)		(17,235)		(2,195)		13,178 (3)
Net cash provided by (used in) financing activities	\$	8,023	\$	(44,349)	\$	2,472	\$	52,372	\$	(46,821)

<sup>(1)</sup> The repayment of long-term obligations is related to the repayment of the \$75 million seller note from Pfizer.

Our common stock purchase plan, which authorized the repurchase of up to \$40.0 million of our common stock, was authorized by our Board of Directors and publicly announced on July 19, 2010. To date, we have purchased a total of \$32.8 million of our stock from this plan, leaving a balance of \$7.2 million available for future purchases. This plan has no expiration date. We are currently limited on share purchases in accordance with the terms and conditions of our Credit Facility (see Note 11 to the consolidated financial statements in Part II, Item 8 of this Form 10-K).

#### **Effects of Inflation**

We do not believe that inflation and changing prices had a significant impact on our results of operations for any periods presented herein.

#### **New Accounting Pronouncements**

See Note 1 to the consolidated financial statements in Part II, Item 8 of this Form 10-K.

<sup>&</sup>lt;sup>(4)</sup>Our purchases of investment securities will vary from period to period based on current cash needs, planning for known future transactions and due to changes in our investment strategy. In 2016, we amended our investment policy to allow for the purchase of securities with final maturities in excess of one year. Accordingly, we adjusted our investment strategy to take advantage of the higher yields available on these longer term securities. Our longer term securities have maturities up to three years.

<sup>&</sup>lt;sup>(5)</sup> The proceeds from the sale of our investment securities increased in 2018, as compared to 2017, as by the end of 2016, we had liquidated all of our investment securities and used the proceeds to fund the acquisition of HIS. Accordingly, we did not have an investment balance in 2017 until purchases were made in September of that year.

<sup>(2)</sup> Proceeds from the exercise of stock options will vary from period to period based on the volume of options exercised and the exercise price of the specific options exercised.

<sup>(3)</sup> In 2018, our employees surrendered 26,307 shares of our common stock from vested restricted stock awards as consideration for approximately \$6.3 million in minimum statutory withholding obligations paid on their behalf. In 2017, our employees surrendered 27,636 shares of our common stock from vested restricted stock awards as consideration for approximately \$4.1 million in minimum statutory withholding obligations paid on their behalf. In 2016, we purchased 174,885 shares of our common stock under our share purchase plan on the open market for \$15.3 million. Additionally in 2016, our employees surrendered 20,261 shares of our common stock from vested restricted stock awards as consideration for approximately \$1.9 million in minimum statutory withholding obligations paid on their behalf.

#### **Off Balance Sheet Arrangements**

In the normal course of business, we have agreed to indemnify our officers and directors to the maximum extent permitted under Delaware law and to indemnify customers as to certain intellectual property matters related to sales of our products. There is no maximum limit on the indemnification that may be required under these agreements. Although we can provide no assurances, we have never incurred, nor do we expect to incur, any liability for indemnification.

#### **Contractual Obligations**

We have contractual obligations, at December 31, 2018, of approximately the amount set forth in the table below. This amount excludes inventory-related purchase orders for goods and services for current delivery and other open orders for purchases that support normal operations. The majority of our inventory purchase orders are blanket purchase orders that represent an estimated forecast of goods and services. We do not have a firm commitment liability on the blanket purchase orders. We have excluded from the table below pursuant to ASC 740-10-25 (formerly FIN 48), an interpretation of ASC 740-10 (formerly SFAS 109), a non-current income tax liability of \$3.7 million due to the high degree of uncertainty regarding the timing of future cash outflows associated with the liabilities.

			(in thousands)											
<b>Contractual Obligations</b>		Total		2019		2020		2021		2022		2023	Tł	nereafter
Commitment fee on Credit Facility	\$	880	\$	228	\$	229	\$	228	\$	195	\$	_	\$	_
Minimum purchase obligations		5,092		2,311		2,306		178		178		119		_
Operating leases		48,151		8,326		8,572		6,489		5,914		5,615		13,235
Warehouse service agreements	_	25,958		7,261	_	6,302	_	4,797		4,221		3,117		260
	\$	80,081	\$	18,126	\$	17,409	\$	11,692	\$	10,508	\$	8,851	\$	13,495

#### **Critical Accounting Policies and Estimates**

Our significant accounting policies are summarized in Note 1 to the Consolidated Financial Statements. In preparing our consolidated financial statements in accordance with GAAP and pursuant to the rules and regulations of the SEC, we make estimates, assumptions and judgments that affect the reported amounts of assets, liabilities, revenue and expenses, and related disclosures of contingent assets and liabilities. We base our estimates, assumptions and judgments on historical experience and other factors that we believe are reasonable. We evaluate our estimates, assumptions and judgments on a regular basis and apply our accounting policies on a consistent basis. We believe that the estimates, assumptions and judgments involved in the accounting for investment securities, revenue recognition, accounts receivable, inventories, property, plant and equipment and related depreciation, income taxes and business combinations have the most potential impact on our consolidated financial statements. Historically, our estimates, assumptions and judgments relative to our critical accounting policies have not differed materially from actual results.

#### Revenue recognition

Adoption of ASC Topic 606, "Revenue from Contracts with Customers"

We adopted ASU No. 2014-09, Revenue from Contracts with Customers (ASC Topic 606), effective January 1, 2018 using the modified retrospective method applied to those contracts which were not completed as of January 1, 2018. Due to the cumulative impact, net of tax, of adopting ASC Topic 606, we recorded a net increase of \$6.3 million to opening retained earnings as of January 1, 2018. The impact is primarily related to our bundled arrangements where we sell software licenses and implementation services, in addition to equipment, consumables and solutions. Under ASC Topic 605, revenue for the equipment was recognized upon delivery and software licenses and implementation services were typically recognized over the contract term. Under ASC Topic 606, revenue for the bundled equipment, software and software implementation services are recognized upon implementation. This results in an acceleration of software related revenue, offset by a delay in the recognition of related revenue of the equipment. Under ASC Topic 605, consumables and solutions revenues were typically recognized upon delivery. Under ASC 606, consumables and solutions revenues are recognized as the customer obtains control of the asset, which is at shipping point. This results in an acceleration in the recognition of consumables and solutions revenue.

Additionally, the timing of revenue recognition for software license renewals changed under ASC Topic 606. Under ASC Topic 605, revenue related to software renewals was recognized on a ratable basis over the license period. Under ASC Topic 606, the license, which is considered functional IP, is considered to be transferred to the customer at a point in time, specifically, at the start of each annual renewal period. As a result, under ASC Topic 606, revenue related to our annual software license renewals is accelerated when compared to ASC Topic 605.

#### Revenue recognition ASC Topic 606

We recognize revenues when we transfer control of promised goods to our customers in an amount that reflects the consideration to which we expect to be entitled to in exchange for those goods. We offer certain volume-based rebates to our distribution customers, which we consider variable consideration when calculating the transaction price. We also provide chargebacks to distributors that sell to end-customers at prices determined under a contract between us and the end-customer. In estimating the most likely rebate and chargeback amounts for use in determining the transaction price, we use information available at the time and our historical experience. We also warrant products against defects and have a policy permitting the return of defective products, for which we accrue and expense at the time of sale using information available and our historical experience. Our revenues are recorded at the net sales price, which includes an estimate for variable consideration related to rebates, chargebacks and product returns.

The vast majority of our sales of Infusion Consumables, IV Solutions, Infusion Systems and Critical Care products are sold on a standalone basis and control of these products transfers to the customer upon shipment.

Our software license renewals are considered to be transferred to a customer at a point in time at the start of each renewal period, therefore revenue is recognized at that time.

#### Arrangements with Multiple Deliverables

In certain circumstances, we enter into arrangements in which we provide multiple deliverables to our customers. These bundled arrangements typically consist of the sale of infusion systems equipment, along with annual software licenses and related software implementation services, as well as infusion consumables, IV solutions and extended warranties. Our most significant judgments related to these arrangements are (i) identifying the various performance obligations and (ii) estimating the relative standalone selling price of each performance obligation, typically using a directly observable method or calculated on a cost plus margin basis method. Revenue related to the bundled equipment, software and software implementation services is recognized upon implementation. The transaction price allocated to the extended service-type warranty is recognized as revenue over the period the warranty service is provided.

#### Accounts receivable

Accounts receivable are stated at net realizable value. An allowance is provided for estimated collection losses based on the age of the receivable or on specific past due accounts for which we consider collection to be doubtful. We rely on prior payment trends, financial status and other factors to estimate the cash which ultimately will be received. Such amounts cannot be known with certainty at the financial statement date. We regularly review individual past due balances for collectability. Loss exposure is principally with international customers for whom normal payment terms are long in comparison to those of our other customers and, to a lesser extent, domestic distributors. Many of these distributors are relatively small and we are vulnerable to adverse developments in their businesses that can hinder our collection of amounts due. If actual collection losses exceed expectations, we could be required to accrue additional bad debt expense, which could have an adverse effect on our operating results in the period in which the accrual occurs.

#### Inventories

Inventories are stated at the lower of cost (first in, first out) or net realizable value. We need to carry many components to accommodate our rapid product delivery, and if we overestimate demand or if customer requirements change, we may have components in inventory that we may not be able to use. Most finished products are made only after we receive orders except for certain standard (non-custom) products which we will carry in inventory in expectation of future orders. For finished products in inventory, we need to estimate what may not be saleable. We regularly review inventory and reserve for slow moving items, and write off all items that we do not expect to use in manufacturing, and finished products that we do not expect to sell. If actual usage of components or sales of finished goods inventory is less than our estimates, we could be required to write off additional inventory, which could have an adverse effect on our operating results in the period in which the write-off occurs.

If our excess and obsolete reserve changed by 1% our cost of goods sold and gross margin would be impacted by \$0.8 million with no impact to our gross margin percentage.

#### Property, plant and equipment/depreciation

Property, plant and equipment is carried at cost and depreciated on the straight-line method over the estimated useful lives. The estimates of useful lives are significant judgments in accounting for property, plant and equipment, particularly for molds and automated assembly machines that are custom made for us. We may retire them on an accelerated basis if we replace them with larger or more technologically advanced tooling. The remaining useful lives of all property, plant and equipment are reviewed regularly and lives are adjusted or assets written off based on current estimates of future use. As part of that review, property, plant and equipment is reviewed for other indicators of impairment. An unexpected shortening of useful lives of property, plant and equipment that significantly increases depreciation provisions, or other circumstances causing us to record an impairment loss on such assets, could have an adverse effect on our operating results in the period in which the related charges are recorded.

#### Income Taxes

We utilize the asset and liability method of accounting for income taxes as set forth in ASC 740. Under the liability method, deferred taxes are determined based on the temporary differences between the financial statement and tax basis of assets and liabilities using tax rates expected to be in effect during the years in which the basis differences reverse. A valuation allowance is recorded when it is more likely than not that some of the deferred tax assets will not be realized. In determining the need for valuation allowances we consider projected future taxable income and the availability of tax planning strategies. If in the future we determine that we would not be able to realize our recorded deferred tax assets, an increase in the valuation allowance would be recorded, decreasing earnings in the period in which such determination is made.

We are subject to income taxes throughout the U.S. and in numerous foreign jurisdictions. We recognize the financial statement benefits for uncertain tax positions as set forth in ASC 740 only if it is more-likely-than-not to be sustained in the event of challenges by relevant taxing authorities based on the technical merit of each tax position. The amounts of uncertain tax positions recognized are the largest benefits that have a greater than 50 percent likelihood of being realized upon settlement with the relevant tax authorities.

On December 22, 2017, the U.S. government enacted comprehensive tax legislation referred to as the Tax Cuts and Jobs Act (the "Tax Act"). Shortly after the Tax Act was enacted, the SEC issued Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act ("SAB 118"), which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which should not extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, we must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete.

As noted at 2017 year-end, we were able to reasonably estimate certain effects and, therefore, recorded provisional adjustments associated with the toll charge on undistributed foreign earnings and profits and revaluation of deferred taxes. Measurement-period adjustments for the toll charge and revaluation of deferred taxes recognized during the year ended December 31, 2018 did not have a material impact on our consolidated financial statements. The effect of the measurement-period adjustments on the 2018 effective tax rate was approximately a three percentage point increase. As of December 31, 2018, our accounting for the Tax Act is complete. For further information, see Note 12 to the consolidated financial statements in Part II, Item 8 of this Form 10-K.

#### **Business Combinations**

The application of the acquisition method of accounting for business combinations requires the use of significant estimates, assumptions and judgments in the determination of the estimated fair value of assets acquired and liabilities assumed in order to properly allocate the purchase price at the acquisition date.

Although we believe the estimates, assumptions and judgments we have made are reasonable, they are based in part on historical experience, industry data, information obtained from the management of the acquired companies and assistance from independent third-party appraisal firms, and are inherently uncertain.

Examples of critical estimates in valuing certain of the tangible and intangible assets we have acquired, and certain liabilities assumed include but are not limited to:

- Inventories we used the comparative sales method, which estimates the selling price of finished goods and work-inprogress inventory, reduced by estimated costs expected to be incurred in selling the inventory and a profit on those
  costs. The fair value of inventory is recognized in our statements of operations as the inventory is sold. Based on
  internal forecasts and estimates of inventory turnover, acquisition date inventory is sold and recognized in cost of
  goods sold over an estimated period of six months after the acquisition date.
- Property, Plant and Equipment the fair value estimate of acquired property, plant and equipment is determined based upon the nature of the asset using either the cost approach, the sales comparison approach or the income capitalization approach. The cost approach measures the value of an asset by estimating the cost to acquire or reproduce comparable assets. The sales comparison approach measures the value of an asset through an analysis of comparable property sales. The income approach values the asset based on its earnings potential. The fair value of land was estimated using a sales comparison approach. Land and building improvements were valued using the cost approach. Personal property assets, such as, leasehold improvements, tooling, laboratory equipment, furniture and fixtures, and equipment, computer hardware, computer software, dies and molds were all valued using the cost approach. Transportation equipment and major manufacturing and equipment were valued using the sales comparison method. Construction-in-progress assets were valued based on the cost approach less adjustments for the nature of the assets. The fair value of property, plant and equipment will be recognized in our statements of operations over the expected useful life of the individual depreciable assets.
- *Identifiable Intangible Assets* The fair value of the significant acquired identifiable intangible assets generally is determined using varying methods under the income approach. This method starts with a forecast of all of the expected future net cash flows associated with the asset and then adjusts the forecast to present value by applying an appropriate discount rate that reflects the risk factors associated with the cash flow streams.
- *Earnout Liability* The fair value of the earnout was valued using a Monte Carlo simulation (see Note 8 to the consolidated financial statements in Part II, Item 8 of this Form 10-K for details).

Unanticipated events and circumstances may occur which may affect the accuracy or validity of such assumptions, estimates or actual results.

#### **Forward Looking Statements**

Various portions of this Annual Report on Form 10-K, including this Management's Discussion and Analysis of Financial Condition and Results of Operations, and documents referenced herein, describe trends in our business and finances that we perceive and state some of our expectations and beliefs about our future. These statements about the future are "forward looking statements," within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, and we may identify them by using words such as "anticipate," "believe," "expect," "estimate," "intend," "plan," "will," "continue," "could," "may," and by similar expressions and statements about aims, goals and plans. The forward looking statements are based on the best information currently available to us and assumptions that we believe are reasonable, but we do not intend the statements to be representations as to future results. They include, without limitation, statements about:

- future growth; future operating results and various elements of operating results, including future expenditures and effects with respect to sales and marketing and product development and acquisition efforts; future sales and unit volumes of products; expected increases and decreases in sales; deferred revenue; accruals for restructuring charges, future license, royalty and revenue share income; production costs; gross margins; litigation expense; future SG&A and R&D expenses; manufacturing expenses; future costs of expanding our business; income; losses; cash flow; amortization; source of funds for capital purchases and operations; future tax rates; alternative sources of capital or financing; changes in working capital items such as receivables and inventory; selling prices; and income taxes;
- factors affecting operating results, such as shipments to specific customers; reduced dependence on current proprietary products; loss of a strategic relationship; change in demand; domestic and international sales; expansion in international markets, selling prices; future increases or decreases in sales of certain products and in certain markets and distribution channels; maintaining strategic relationships and securing long-term and multi-product contracts with large healthcare providers and major buying organizations; increases in systems capabilities; introduction, development and sales of new products, acquisition and integration of businesses and product lines, including the HIS business, SwabCap (EXC) and Tangent; benefits of our

products over competing systems; qualification of our new products for the expedited Section 510(k) clearance procedure; possibility of lengthier clearance process for new products; planned increases in marketing; warranty claims; rebates; product returns; bad debt expense; amortization expense; inventory requirements; lives of property, plant and equipment; manufacturing efficiencies and cost savings; unit manufacturing costs; establishment or expansion of production facilities inside or outside of the U.S.; planned new orders for semi-automated or fully automated assembly machines for new products; adequacy of production capacity; results of R&D; our plans to repurchase shares of our common stock; asset impairment losses; relocation of manufacturing facilities and personnel; effect of expansion of manufacturing facilities on production efficiencies and resolution of production inefficiencies; the effect of costs to customers and delivery times; business seasonality and fluctuations in quarterly results; customer ordering patterns and the effects of new accounting pronouncements; and

new or extended contracts with manufacturers and buying organizations; dependence on a small number of customers; loss of larger distributors and the ability to locate other distributors; the impact of our acquisition of the HIS business; growth of our Clave products in future years; design features of Clave products; the outcome of our strategic initiatives; regulatory approvals and compliance; outcome of litigation; patent protection and intellectual property landscape; patent infringement claims and the impact of newly issued patents on other medical devices; competitive and market factors, including continuing development of competing products by other manufacturers; improved production processes and higher volume production; innovation requirements; consolidation of the healthcare provider market and downward pressure on selling prices; distribution or financial capabilities of competitors; healthcare reform legislation; use of treasury stock; working capital requirements; liquidity and realizable value of our investment securities; future investment alternatives; foreign currency denominated financial instruments; foreign exchange risk; commodity price risk; our expectations regarding liquidity and capital resources over the next twelve months; capital expenditures; plans to convert existing space; acquisitions of other businesses or product lines, indemnification liabilities and contractual liabilities.

Forward-looking statements involve certain risks and uncertainties, which may cause actual results to differ materially from those discussed in each such statement. First, one should consider the factors and risks described in the statements themselves or otherwise discussed herein. Those factors are uncertain, and if one or more of them turn out differently than we currently expect, our operating results may differ materially from our current expectations.

Second, investors should read the forward looking statements in conjunction with the Risk Factors discussed in Item 1A of this Annual Report on Form 10-K. Also, actual future operating results are subject to other important factors and risks that we cannot predict or control, including without limitation, the following:

- general economic and business conditions, both in the U.S. and internationally;
- unexpected changes in our arrangements with our large customers;
- outcome of litigation;
- fluctuations in foreign exchange rates and other risks of doing business internationally;
- increases in labor costs or competition for skilled workers;
- increases in costs or availability of the raw materials need to manufacture our products;
- the effect of price and safety considerations on the healthcare industry;
- competitive factors, such as product innovation, new technologies, marketing and distribution strength and price erosion;
- the successful development and marketing of new products;
- unanticipated market shifts and trends;
- the impact of legislation affecting government reimbursement of healthcare costs;
- changes by our major customers and independent distributors in their strategies that might affect their efforts to market our products;
- the effects of additional governmental regulations;
- unanticipated production problems; and
- the availability of patent protection and the cost of enforcing and of defending patent claims.

The forward looking statements in this report are subject to additional risks and uncertainties, including those detailed from time to time in our other filings with the Securities and Exchange Commission. These forward-looking statements are made only as of the date hereof and, except as required by law, we undertake no obligation to update or revise any of them, whether as a result of new information, future events or otherwise.

#### ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Foreign Exchange Risk

We have foreign currency exchange risk related to foreign-denominated cash, accounts receivable and accounts payable. In our European operations, our net Euro asset position at December 31, 2018 was approximately £61.6 million. A 10% change in the conversion of the Euro to the U.S. dollar for our cash, accounts receivable, accounts payable and accrued liabilities from the December 31, 2018 spot rate would impact our consolidated amounts on these balance sheet items by approximately \$7.1 million, or 2.6% of these net assets. In our Canadian operations, our net Canadian dollar asset position at December 31, 2018 was approximately \$58.3 million. A 10% change in the conversion of the Canadian dollar to the U.S. dollar for our cash, accounts receivable, accounts payable and accrued liabilities from the December 31, 2018 spot rate would impact our consolidated amounts on these balance sheet items by approximately \$4.3 million, or 1.6% of these net assets. We currently do not hedge our Canadian dollar or Euro foreign currency exposures.

We have manufacturing facilities and conduct business transactions denominated in the Mexican Peso. During 2017, we began to hedge a portion of our manufacturing spend, which reduced our exposure to the foreign currency exchange risk related to the Mexican Peso (see Note 7, Derivatives and Hedging to the consolidated financial statements in Part II, Item 8 of this Form 10-K).

#### ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

#### INDEX TO CONSOLIDATED FINANCIAL STATEMENTS AND SCHEDULE

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#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of ICU Medical, Inc.

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of ICU Medical, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, and the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes and the financial statement schedule listed in the Index at Item 15 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated March 1, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

#### **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Costa Mesa, California March 1, 2019

We have served as the Company's auditor since 2008

#### **CONSOLIDATED BALANCE SHEETS**

(Amounts in thousands, except par value data)

ASSETS  CURRENT ASSETS:  Cash and cash equivalents Short-term investment securities  2018 2017  2018 2017  3019  10,061
CURRENT ASSETS: Cash and cash equivalents \$ 344,781 \$ 290,072
Cash and cash equivalents \$ 344,781 \$ 290,072
•
Short-term investment securities 37,329 10,061
TOTAL CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENT SECURITIES 382,110 300,133
Accounts receivable, net of allowance for doubtful accounts of \$5,768 and \$3,311 at December 31, 2018 and 2017, respectively 176,298 112,696
Inventories 311,163 288,657
Prepaid income taxes 11,348 10,594
Prepaid expenses and other current assets 25,980 41,286
Related-party receivable 20,137 98,807
Assets held-for-sale 12,489
TOTAL CURRENT ASSETS 927,036 864,662
PROPERTY, PLANT AND EQUIPMENT, net 432,641 398,684
LONG-TERM INVESTMENT SECURITIES 2,025 14,579
GOODWILL 11,195 12,357
INTANGIBLE ASSETS, net 133,421 143,753
DEFERRED INCOME TAXES 38,654 24,775
OTHER ASSETS 40,419 38,141
TOTAL ASSETS \$ 1,585,391 \$ 1,496,951
LIABILITIES AND STOCKHOLDERS' EQUITY
CURRENT LIABILITIES:
Accounts payable \$ 120,469 \$ 78,228
Accrued liabilities 128,820 132,064
TOTAL CURRENT LIABILITIES 249,289 210,292
CONTINGENT EARN-OUT LIABILITY 47,400 27,000
OTHER LONG-TERM LIABILITIES 20,592 55,326
DEFERRED INCOME TAXES 721 1,487
INCOME TAX LIABILITY 3,734 4,592
COMMITMENTS AND CONTINGENCIES (Note 15) — — —
STOCKHOLDERS' EQUITY:
Convertible preferred stock, \$1.00 par value Authorized—500 shares; Issued and outstanding— none — — —
Common stock, \$0.10 par value — Authorized—80,000 shares; Issued 20,492 shares at December 31, 2018 and 20,210 at December 31, 2017 and outstanding 20,491 shares at December 31, 2018 and 20,210 shares at December 31, 2017 2,049 2,021
Additional paid-in capital 657,899 625,568
Treasury stock, at cost (95) —
Retained earnings 620,747 585,624
Accumulated other comprehensive loss (16,945) (14,959)
TOTAL STOCKHOLDERS' EQUITY 1,263,655 1,198,254
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY \$ 1,585,391 \$ 1,496,951

#### CONSOLIDATED STATEMENTS OF OPERATIONS

(Amounts in thousands, except per share data)

	Year ended December 31,							
	2018		2017		2016			
REVENUES:								
Net sales	\$ 1,400,040	\$	1,292,166	\$	379,339			
Other	_		447		33			
TOTAL REVENUE	1,400,040		1,292,613		379,372			
COST OF GOODS SOLD	830,012		866,518		177,974			
GROSS PROFIT	 570,028		426,095		201,398			
OPERATING EXPENSES:								
Selling, general and administrative	328,146		303,953		89,426			
Research and development	52,867		51,253		12,955			
Restructuring, strategic transaction and integration expense	105,390		77,967		15,348			
Change in fair value of contingent earn-out	20,400		8,000		_			
Contract settlement	41,613		_		_			
Impairment of assets held for sale	_		_		728			
TOTAL OPERATING EXPENSES	 548,416		441,173		118,457			
INCOME (LOSS) FROM OPERATIONS	21,612		(15,078)		82,941			
BARGAIN PURCHASE GAIN	_		70,890		1,456			
INTEREST EXPENSE	(709)		(2,047)		(118)			
OTHER INCOME (EXPENSE), NET	1,471		(2,482)		885			
INCOME BEFORE INCOME TAXES	 22,374		51,283		85,164			
BENEFIT (PROVISION) FOR INCOME TAXES	6,419		17,361		(22,080)			
NET INCOME	\$ 28,793	\$	68,644	\$	63,084			
NET INCOME PER SHARE								
Basic	\$ 1.41	\$	3.50	\$	3.90			
Diluted	\$ 1.33	\$	3.29	\$	3.66			
WEIGHTED AVERAGE NUMBER OF SHARES								
Basic	20,394		19,614		16,168			
Diluted	21,601		20,858		17,254			

#### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(Amounts in thousands)

	Year ended December 31,							
	2018 2017				2016			
Net income	\$	28,793	\$	68,644	\$	63,084		
Other comprehensive income (loss), net of tax:								
Cash flow hedge adjustments, net of tax of \$317 and \$224 for the years ended December 31, 2018 and 2017, respectively		1,003		(365)		_		
Foreign currency translation adjustment, net of tax of \$0, \$56 and \$185 for the years ended December 31, 2018, 2017 and 2016, respectively		(3,104)		6,694		(514)		
Other adjustments, net of tax of \$0 for all periods		115		(16)		_		
Other comprehensive (loss) income, net of tax		(1,986)		6,313		(514)		
Comprehensive income	\$	26,807	\$	74,957	\$	62,570		

# CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

(Amounts in thousands)

	Common Stock	tock				Accumulated	
			Additional			Other	
	Shares	Amount	Paid-In Capital	Treasury Stock	Retained Earnings	Comprehensive Income (Loss)	Total
Balance, January 1, 2016	16,086	\$ 1,608	\$ 145,125	- -	\$ 453,896	\$ (20,758)	\$ 579,871
Issuance of restricted stock and exercise of stock options	416	22	103	17,221			17,346
Purchase of treasury stock/treasury stock acquired in lieu of cash payment on stock option exercises/tax withholding payments related to net share settlement of equity awards	(195)	I		(17,235)			(17,235)
Proceeds from employee stock purchase plan	31	Э	2,358	1			2,361
Stock compensation	1	1	15,242	1		1	15,242
Foreign currency translation adjustment	1	1	1	1	1	(514)	(514)
Net income	1	I	1	I	63,084	1	63,084
Balance, December 31, 2016	16,338	1,633	162,828	(14)	516,980	(21,272)	660,155
Issuance of restricted stock and exercise of stock options	929	99	27,866	4,071	1		32,003
Tax withholding payments related to net share settlement of equity awards	(27)		I	(4,057)			(4,057)
Issuance of common stock for acquisitions	3,200	320	412,819	1		1	413,139
Proceeds from employee stock purchase plan	23	2	2,703	1			2,705
Stock compensation		1	19,352	1	1		19,352
Foreign currency translation adjustment						6,313	6,313
Net income		1		1	68,644		68,644
Balance, December 31, 2017	20,210	2,021	625,568		585,624	(14,959)	1,198,254
Cumulative effect of accounting change	I		1	1	6,330		6,330
Issuance of restricted stock and exercise of stock options	307	28	8,090	6,157	1		14,275
Tax withholding payments related to net share settlement of equity awards	(26)		1	(6,252)			(6,252)
Stock compensation			24,241				24,241
Other comprehensive income, net of tax		1				(1,986)	(1,986)
Net income					28,793		28,793
Balance, December 31, 2018	20,491	\$ 2,049	\$ 657,899	\$ (95)	\$ 620,747	\$ (16,945)	\$1,263,655
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# ICU MEDICAL, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS

(Amounts in thousands)

Adjustments to reconcile net income to net eash provided by operating activities  Depreciation and amoritzation  Provision for doubtful accounts  Provision for doubtful accounts  Provision for warranty and returns  \$5.03.3 845  Stock compensation  Loss on disposal or write-off of property, plant and equipment  \$8.67 3,778  Loss on disposal or write-off of property, plant and equipment  \$8.67 3,778  Contract settlement  \$1.2,696 —  Write-off of acquired intangibles  Bond premium amoritzation  \$1.200 —  Bond premium amoritzation  \$1.200 —  Bond premium amoritzation  \$1.200 —  Bord guired intangibles  \$1.200 —  Borgain purchase gain  \$1.200 —  \$1.200		Ye			
Not income		2018	2017	2016	
Adjustments to reconcile net income to net eash provided hy operating activities:    Depreciation and amontziatoin   74,735   66,569   19     Provision for doubfful accounts   781   2,308     Provision for doubfful accounts   78,353   845     Stock compensation   24,241   19,352   15,	CASH FLOWS FROM OPERATING ACTIVITIES:				
Depreciation and amortization	Net income	\$ 28,793	\$ 68,644	\$ 63,084	
Provision for doubtful accounts         781         2,308           Provision for warranty and returns         5,353         845           Stook compensation         24,241         19,352         15           Loss on disposal or write-off of property, plant and equipment         8,867         3,778           Contract settlement         12,696         —           Write-off of acquired intangibles         5,000         —           Bond prenium manorization         342         103         1           Debt issuance cost amortization         288         48         48           Impairment of assets held-for-sale         2e9         —         —           Bragain purchase gain         —         (70,890)         (1           Change in fair value of contingent carn-out         20,400         8,000           Other         3,856         (220           Changes in sperating assets and liabilities, net of amounts acquired:         —         4,643         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)         (3,1807)	Adjustments to reconcile net income to net cash provided by operating activities:				
Provision for warranty and returns	Depreciation and amortization	74,735	66,569	19,050	
Stock compensation	Provision for doubtful accounts	781	2,308	_	
Contract settlement	Provision for warranty and returns	5,353	845	559	
Contract settlement         12,696         —           Write-off of acquired intangibles         5,000         —           Bond premium amortization         288         48           Debt issuance cost amortization         288         48           Impairment of assets held-for-sale         269         —           Bargain purchase gain         —         (70,890)         (I.           Change in fair value of contingent earn-out         20,400         8,000           Other         3,856         (220)           Changes in operating assets and liabilities, net of amounts acquired:         —           Changes in operating assets and liabilities, net of amounts acquired:         —           Accounts receivable         (76,742)         (54,533)           Inventories         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)         —           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Intense provided by operating activities         (92,720)         (74,479)         (23           Net ca	Stock compensation	24,241	19,352	15,242	
Write-off of acquired intangibles         5,000         —           Bond premium amortization         342         103         1,           Debt issuance cost amortization         288         48           Impairment of assets held-for-sale         269         —           Bargain purchase gain         —         (70,890)         (1,           Change in fair value of contingent earn-out         20,400         8,000           Other         3,856         (220)           Changes in operating assets and liabilities, net of amounts acquired:         (76,742)         (54,533)           Accounts receivable         (76,742)         (84,533)         (5           Inventories         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivable         97,443         (93,509)         (5           Accounts payable         (20,553)         33,813         (1           Accounts payable         (20,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         (92,720)         (74,479)         (23 <t< td=""><td>Loss on disposal or write-off of property, plant and equipment</td><td>8,867</td><td>3,778</td><td>59</td></t<>	Loss on disposal or write-off of property, plant and equipment	8,867	3,778	59	
Bond premium amortization	Contract settlement	12,696	_	_	
Debt issuance cost amortization   288   48   48   48   48   48   48   4	Write-off of acquired intangibles	5,000	_	_	
Pagain purchase gain   C70,890   C10,890   C	Bond premium amortization	342	103	1,355	
Bargain purchase gain         —         (70,890)         (10           Change in fair value of contingent earn-out         20,400         8,000           Other         3,856         (220)           Changes in operating assets and liabilities, net of amounts acquired:           Changes in operating assets and liabilities, net of amounts acquired:           Accounts receivable         (76,742)         (54,533)         Change in operating assets and other assets         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)         (3           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)         8           Net cash provided by operating activities         10,215         154,423         8           CASH FLOWS FROM INVESTING ACTIVITIES:         2         1         1         2         2         2         2         2         2         2         2         2         2         2         2         2	Debt issuance cost amortization	288	48	_	
Change in fair value of contingent earn-out         20,400         8,000           Other         3,856         (220)           Changes in operating assets and liabilities, net of amounts acquired:         Total Counts receivable         (76,742)         (54,533)           Inventories         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)         (95,309)           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Purchases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquire	Impairment of assets held-for-sale	269	_	728	
Other         3,856         (220)           Changes in operating assets and liabilities, net of amounts acquired:         (76,742)         (54,533)           Accounts receivable         (76,742)         (18,699)         (5           Inventories         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)         (95,309)           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Turchases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquired         (13,000)	Bargain purchase gain	_	(70,890)	(1,456	
Changes in operating assets and liabilities, net of amounts acquired:   Accounts receivable	Change in fair value of contingent earn-out	20,400	8,000	_	
Accounts receivable         (76,742)         (54,533)           Inventories         (21,770)         181,699         (5           Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Purchases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2           Purchases of investment securities         (30,496)         (24,743)         (118           Proceeds from sale of investment securities         (103,370)	Other	3,856	(220)	75	
Inventories	Changes in operating assets and liabilities, net of amounts acquired:				
Prepaid expenses and other assets         1,943         (31,807)         (3           Related-party receivables         97,443         (95,309)           Accounts payable         23,270         46,648         (0           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Verbases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2           Purchases of investment securities         15,440         —         158           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)	Accounts receivable	(76,742)	(54,533)	744	
Related-party receivables         97,443         (95,309)           Accounts payable         23,270         46,648         (6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         The purchases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2           Purchases of investment securities         (30,496)         (24,743)         (118           Proceeds from sale of investment securities         15,440         —         158           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)	Inventories	(21,770)	181,699	(5,501	
Accounts payable         23,270         46,648         6           Accrued liabilities         (29,553)         33,813         (1           Income taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net eash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Purchases of property, plant and equipment         (92,720)         (74,479)         (23           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3           Intangible asset additions         (8,059)         (5,203)         (1           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2           Purchases of investment securities         (30,496)         (24,743)         (118           Proceeds from sale of investment securities         15,440         —         158           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275	Prepaid expenses and other assets	1,943	(31,807)	(3,028	
Accrued liabilities         (29,553)         33,813         (1, 1 come taxes, including excess tax benefits and deferred income taxes         (19,997)         (24,625)           Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Purchases of property, plant and equipment         (92,720)         (74,479)         (23, 765)           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3, 11, 13, 100           Intangible asset additions         (8,059)         (5,203)         (1, 1, 100)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Related-party receivables	97,443	(95,309)	_	
Income taxes, including excess tax benefits and deferred income taxes   19,997   (24,625)	Accounts payable	23,270	46,648	(463	
Net cash provided by operating activities         160,215         154,423         89           CASH FLOWS FROM INVESTING ACTIVITIES:         Purchases of property, plant and equipment         (92,720)         (74,479)         (23,720)           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3,111           Intangible asset additions         (8,059)         (5,203)         (1,11           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,21,403)           Purchases of investment securities         (30,496)         (24,743)         (118,40)           Proceeds from sale of investment securities         15,440         —         158,40           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,50           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,7           Proceeds from employee stock purchase plan         —         2,705         2,705           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057) <td></td> <td>(29,553)</td> <td>33,813</td> <td>(1,221</td>		(29,553)	33,813	(1,221	
CASH FLOWS FROM INVESTING ACTIVITIES:           Purchases of property, plant and equipment         (92,720)         (74,479)         (23,720)           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3,11,000           Intangible asset additions         (8,059)         (5,203)         (1,200)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,200)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,000           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023	Income taxes, including excess tax benefits and deferred income taxes	(19,997)	(24,625)	714	
CASH FLOWS FROM INVESTING ACTIVITIES:           Purchases of property, plant and equipment         (92,720)         (74,479)         (23,720)           Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3,11,000           Intangible asset additions         (8,059)         (5,203)         (1,200)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,200)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         Repayment of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,000           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023	· · · ·			89,941	
Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3,000           Intangible asset additions         (8,059)         (5,203)         (1,000)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,000)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         The company of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,000           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023         (44,349)         2,000           Effect of exchange rate changes on cash         (10,159)         1,787		<u> </u>			
Proceeds from sale of assets         765         2           Proceeds from the disposal of assets held-for-sale, net         13,000         —         3,000           Intangible asset additions         (8,059)         (5,203)         (1,000)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,000)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         The company of long-term obligations         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,000           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023         (44,349)         2,000           Effect of exchange rate changes on cash         (10,159)         1,787	Purchases of property, plant and equipment	(92,720)	(74,479)	(23,361	
Intangible asset additions         (8,059)         (5,203)         (1,200)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,203)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         The cash provided by investing activities         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,705           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023         (44,349)         2,000           Effect of exchange rate changes on cash         (10,159)         1,787		, , ,	, , ,	_	
Intangible asset additions         (8,059)         (5,203)         (1,200)           Business acquisitions, net of cash acquired         (1,300)         (162,448)         (2,203)           Purchases of investment securities         (30,496)         (24,743)         (118,000)           Proceeds from sale of investment securities         15,440         —         158,000           Net cash (used in) provided by investing activities         (103,370)         (266,871)         16,000           CASH FLOWS FROM FINANCING ACTIVITIES:         The cash provided by investing activities         —         (75,000)           Proceeds from exercise of stock options         14,275         32,003         17,000           Proceeds from employee stock purchase plan         —         2,705         2,705           Purchase of treasury stock/tax withholding payments on net share settlement of equity awards         (6,252)         (4,057)         (17,000)           Net cash provided by (used in) financing activities         8,023         (44,349)         2,000           Effect of exchange rate changes on cash         (10,159)         1,787	Proceeds from the disposal of assets held-for-sale, net	13,000	_	3,268	
Business acquisitions, net of cash acquired (1,300) (162,448) (2, Purchases of investment securities (30,496) (24,743) (118, Proceeds from sale of investment securities 15,440 — 158, Net cash (used in) provided by investing activities (103,370) (266,871) 16, CASH FLOWS FROM FINANCING ACTIVITIES:  Repayment of long-term obligations — (75,000)  Proceeds from exercise of stock options 14,275 32,003 17, Proceeds from employee stock purchase plan — 2,705 2, Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17, Net cash provided by (used in) financing activities 8,023 (44,349) 2, Effect of exchange rate changes on cash (10,159) 1,787	-	(8,059)	(5,203)		
Purchases of investment securities (30,496) (24,743) (118, Proceeds from sale of investment securities 15,440 — 158, Net cash (used in) provided by investing activities (103,370) (266,871) 16, CASH FLOWS FROM FINANCING ACTIVITIES:  Repayment of long-term obligations — (75,000)  Proceeds from exercise of stock options 14,275 32,003 17, Proceeds from employee stock purchase plan — 2,705 2. Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17, Net cash provided by (used in) financing activities 8,023 (44,349) 2. Effect of exchange rate changes on cash (10,159) 1,787	-				
Proceeds from sale of investment securities 15,440 — 158.  Net cash (used in) provided by investing activities (103,370) (266,871) 16.  CASH FLOWS FROM FINANCING ACTIVITIES:  Repayment of long-term obligations — (75,000)  Proceeds from exercise of stock options 14,275 32,003 17.  Proceeds from employee stock purchase plan — 2,705 2.  Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17,007)  Net cash provided by (used in) financing activities 8,023 (44,349) 2.  Effect of exchange rate changes on cash (10,159) 1,787		* ,	, , ,	` `	
Net cash (used in) provided by investing activities (103,370) (266,871) 16.  CASH FLOWS FROM FINANCING ACTIVITIES:  Repayment of long-term obligations — (75,000)  Proceeds from exercise of stock options 14,275 32,003 17.  Proceeds from employee stock purchase plan — 2,705 2.  Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17,000)  Net cash provided by (used in) financing activities 8,023 (44,349) 2.  Effect of exchange rate changes on cash (10,159) 1,787		, , ,		158,534	
CASH FLOWS FROM FINANCING ACTIVITIES:  Repayment of long-term obligations — (75,000)  Proceeds from exercise of stock options 14,275 32,003 17.  Proceeds from employee stock purchase plan — 2,705 2.  Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17,000)  Net cash provided by (used in) financing activities 8,023 (44,349) 2.  Effect of exchange rate changes on cash (10,159) 1,787			(266.871)	_	
Repayment of long-term obligations—(75,000)Proceeds from exercise of stock options14,27532,00317Proceeds from employee stock purchase plan—2,7052Purchase of treasury stock/tax withholding payments on net share settlement of equity awards(6,252)(4,057)(17Net cash provided by (used in) financing activities8,023(44,349)2Effect of exchange rate changes on cash(10,159)1,787		( 12,511)	( 1 3,1 1 )	-, -	
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Proceeds from employee stock purchase plan — 2,705 2.  Purchase of treasury stock/tax withholding payments on net share settlement of equity awards (6,252) (4,057) (17,000)  Net cash provided by (used in) financing activities 8,023 (44,349) 2.  Effect of exchange rate changes on cash (10,159) 1,787		14.275		17,346	
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Effect of exchange rate changes on cash (10,159) 1,787					
				224	
(100,010)	•				
CASH AND CASH EQUIVALENTS, beginning of period 290,072 445,082 336.				336,164	
			-	-	

#### CONSOLIDATED STATEMENTS OF CASH FLOWS - CONTINUED

(Amounts in thousands)

	 Ye	ar en	ded December	31,	
	2018		2017		2016
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION					
Cash paid during the year for income taxes	\$ 12,598	\$	5,109	\$	21,101
Cash paid during the year for interest	\$ 709	\$	2,047	\$	118
SUPPLEMENTAL DISCLOSURE OF NON-CASH INVESTING AND FINANCING ACTIVITIES:					
Accounts payable for property, plant and equipment	\$ 26,522	\$	5,376	\$	1,566
Detail of assets acquired and liabilities assumed in acquisitions:					
Fair value of assets acquired		\$	886,569	\$	3,306
Cash paid for acquisitions, net of cash acquired			(162,448)		(2,584)
Non-cash seller note			(75,000)		_
Estimated working capital adjustment			4,253		_
Contingent consideration			(19,000)		_
Issuance of common stock for acquisitions			(413,139)		_
Bargain purchase gain			(70,890)		(1,456)
Goodwill, acquired during period			6,536		_
Liabilities assumed/Adjustments to liabilities assumed		\$	(156,881)	\$	734

#### NOTE 1. BASIS OF PRESENTATION AND SIGNIFICANT ACCOUNTING POLICIES

#### Basis of Presentation and Preparation

ICU Medical, Inc. ("ICU"), a Delaware corporation, operates in one business segment engaged in the development, manufacturing and sale of innovative medical devices used in vascular therapy, and critical care applications. ICU's product portfolio includes intravenous smart pumps, sets, connectors, closed transfer devices for hazardous drugs, cardiac monitoring systems, along with pain management and safety software technology. We sell the majority of our products through our direct sales force and through independent distributors throughout the U. S. and internationally. Additionally, we sell our products on an original equipment manufacturer basis to other medical device manufacturers. The manufacturing for all product groups occurs in Salt Lake City, Utah, Austin, Texas, Mexico and Costa Rica.

All subsidiaries are wholly owned and are included in the consolidated financial statements. All intercompany accounts and transactions have been eliminated. Results of operations of companies purchased are included from the dates of acquisition.

The consolidated financial statements reflect all adjustments, which are normal and recurring in nature, necessary for fair financial statement presentation. These consolidated financial statements were prepared in accordance with accounting principles generally accepted in the United States of America ("GAAP"). Preparing financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Certain reclassifications have been made to prior year financial statements to conform to classifications used in the current year. These reclassifications had no impact on net income, stockholders' equity or cash flows as previously reported. These reclassifications were to the effective tax rate reconciliation table, the deferred income tax assets (liabilities) table in Note 12, Income Taxes and to the revenue by geography table in Note 4, Revenue.

#### Cash, Cash Equivalents

Cash equivalents are short-term, highly liquid investments that are readily convertible to known amounts of cash and have original maturities of three months or less from the date of purchase as cash equivalents.

#### Accounts Receivable

Accounts receivable are stated at net realizable value. An allowance is provided for estimated collection losses based on an assessment of various factors. We consider prior payment trends, the age of the accounts receivable balances, financial status and other factors to estimate the cash which ultimately will be received. Such amounts cannot be known with certainty at the financial statement date. We regularly review individual past due balances for collectability.

#### **Inventories**

Inventories are stated at the lower of cost or net realizable value with cost determined using the first-in, first-out method. Inventory costs include material, labor and overhead related to the manufacturing of medical devices.

Inventories consist of the following at December 31 (in thousands):

	2018	 2017
Raw material	\$ 104,104	\$ 82,397
Work in process	52,909	42,304
Finished goods	154,150	163,956
Total	\$ 311,163	\$ 288,657

#### Property, Plant and Equipment

Property, plant and equipment consist of the following at December 31 (in thousands):

	 2018	 2017
Machinery and equipment	\$ 203,431	\$ 220,999
Land, building and building improvements	212,283	206,846
Molds	59,700	56,253
Computer equipment and software	80,420	44,408
Furniture and fixtures	7,409	7,361
Instruments placed with customers <sup>1</sup>	60,757	15,812
Construction in progress	 70,864	 57,144
Total property, plant and equipment, cost	694,864	608,823
Accumulated depreciation	 (262,223)	 (210,139)
Net property, plant and equipment	\$ 432,641	\$ 398,684

<sup>&</sup>lt;sup>1</sup>Instruments placed with customers consist of drug-delivery and monitoring systems placed with customer under operating leases.

All property, plant and equipment are stated at cost. We use the straight-line method for depreciating property, plant and equipment over their estimated useful lives. Estimated useful lives are:

Buildings	15 - 30 years
Building improvements	15 - 30 years
Machinery, equipment and molds	2 - 15 years
Furniture, fixtures and office equipment	2 - 5 years
Computer equipment and software	3 - 5 years
Instruments placed with customers <sup>1</sup>	3 - 7 years

We capitalize expenditures that materially increase the life of the related assets; maintenance and repairs are expensed as incurred. The costs and related accumulated depreciation applicable to property, plant and equipment sold or retired are removed from the accounts and any gain or loss is reflected in the statements of operations at the time of disposal. Depreciation expense was \$58.1 million, \$51.6 million and \$16.3 million in the years ended December 31, 2018, 2017 and 2016, respectively.

#### Goodwill

We test goodwill for impairment on an annual basis in the month of November. If the carrying amount of goodwill exceeds the implied estimated fair value, an impairment charge to current operations is recorded to reduce the carrying value to the implied estimated fair value. There were no accumulated impairment losses as of December 31, 2018 and 2017.

The following table presents the changes in the carrying amount of our goodwill for 2018 and 2017 (in thousands):

	Total
Balance as of January 1, 2017	\$ 5,577
Goodwill acquired <sup>(1)</sup>	6,536
Other <sup>(2)</sup>	244
Balance as of December 31, 2017	12,357
Goodwill acquired <sup>(3)</sup>	1,300
Other (2)	(2,462)
Balance as of December 31, 2018	\$ 11,195

<sup>(1)</sup> In 2017, our Fannin (UK) Limited ("Fannin") acquisition resulted in \$1.0 million of goodwill and our Medical Australia Limited ("MLA") acquisition resulted in \$5.5 million of goodwill.

#### **Intangible Assets**

Intangible assets, carried at cost less accumulated amortization and amortized on a straight-lined basis, were as follows (in thousands):

	Weighted		Decei	nber 31, 2018	
	Average Amortization Life in Years	Cost		cumulated nortization	Net
Patents	10	\$ 19,399	\$	12,147	\$ 7,252
Customer contracts	9	5,319		5,272	47
Non-contractual customer relationships	9	57,916		13,363	44,553
Trademarks	4	425		425	_
Trade name	15	7,456		1,618	5,838
Developed technology	11	82,857		15,361	67,496
Total amortized intangible assets		\$ 173,372	\$	48,186	\$ 125,186
IPR&D		\$ 8,235			\$ 8,235
Total intangible assets		\$ 181,607	\$	48,186	\$ 133,421

<sup>(2)</sup> In 2018, "Other" relates to a \$1.9 million measurement period adjustment on our MLA acquisition and foreign currency translation. In 2017, "Other" relates to foreign currency translation.

<sup>(3)</sup> In 2018, we acquired the consulting arm of True Process Inc., which resulted in \$1.3 million of goodwill.

	Weighted Average		Dece	mber 31, 2017	
	Amortization Life in Years	Cost		ccumulated mortization	Net
Patents	10	\$ 17,064	\$	10,970	\$ 6,094
Customer contracts	9	5,319		4,892	427
Non-contractual customer relationships	9	55,080		6,562	48,518
Trademarks	4	425		425	_
Trade name	15	7,310		1,096	6,214
Developed technology	11	81,846		7,571	74,275
Total		\$ 167,044	\$	31,516	\$ 135,528
IPR&D		\$ 8,225			\$ 8,225
Total intangible assets		\$ 175,269	\$	31,516	\$ 143,753

Amortization expense in 2018, 2017 and 2016 was \$16.6 million, \$15.0 million and \$2.8 million, respectively.

As of December 31, 2018 estimated annual amortization for our intangible assets for each of the next five years is approximately (in thousands):

2019	\$ 17,103
2020	16,126
2021	15,825
2022	15,681
2023	15,532
Thereafter	44,919
Total	\$ 125,186

Our intangible assets that are not subject to amortization are reviewed annually for impairment or more often if there are indications of possible impairment. We perform our annual intangible assets impairment test in November of each year.

#### Long-Lived Assets

We periodically evaluate the recoverability of long-lived assets whenever events and changes in circumstances indicate that the carrying amount of an asset may not be fully recoverable. When indicators of impairment are present, the carrying values of the assets are evaluated in relation to the operating performance and future undiscounted cash flows of the underlying business. The net book value of the underlying asset is adjusted to fair value if the sum of the expected discounted cash flows is less than book value. Fair values are based on estimates of market prices and assumptions concerning the amount and timing of estimated future cash flows and discount rates, reflecting varying degrees of perceived risk.

#### **Investment Securities**

Short-term investments, exclusive of cash equivalents, are marketable securities intended to be sold within one year and may include trading securities, available-for-sale securities, and held-to-maturity securities (if maturing within one year at the time of acquisition). Long-term investments are marketable securities intended to be sold after one year and may include trading securities, available-for-sale securities, and held-to-maturity securities.

Our investment securities are considered available-for-sale and are "investment grade" and carried at fair value. Our investments currently consist of corporate bonds. Available-for-sale securities are recorded at fair value, and unrealized holding gains and losses are recorded, net of tax, as a component of accumulated other comprehensive income (loss). Unrealized losses

on available-for-sale securities are charged against net earnings when a decline in fair value is determined to be other than temporary. Our management reviews several factors to determine whether a loss is other than temporary, such as the length and extent of the fair value decline, the financial condition and near term prospects of the issuer, and for equity investments, our intent and ability to hold the security for a period of time sufficient to allow for any anticipated recovery in fair value. For debt securities, management also evaluates whether we have the intent to sell or will likely be required to sell before its anticipated recovery. Realized gains and losses are accounted for on the specific identification method. There have been no realized gains or losses on the disposal of investments. The scheduled maturities of the investment securities are between 2019 and 2020. All short-term investment securities are all callable within one year.

Our investment securities consist of the following (in thousands):

		December 31, 201	O
	Amortized Cost	Unrealized Holding Gains (Losses)	Fair Value
Short-term corporate bonds	37,329	\$ —	\$ 37,329
Long-term corporate bonds	2,025	_	2,025
Total investment securities	\$ 39,354	<u> </u>	\$ 39,354
		December 31, 201	7
	Amortized Cost	Unrealized Holding Gains (Losses)	Fair Value
Short-term corporate bonds	\$ 10,061	<u> </u>	\$ 10,061
Long-term corporate bonds	14,579	_	14,579

December 31 2018

24,640

24,640

#### **Income Taxes**

Total investment securities

Deferred taxes are determined based on the differences between the financial statements and the tax bases using rates as enacted in the laws. A valuation allowance is established if it is "more likely than not" that all or a portion of the deferred tax assets will not be realized.

We recognize interest and penalties related to unrecognized tax benefits in the tax provision. We recognize liabilities for uncertain tax positions when it is more likely than not that a tax position will not be sustained upon examination and settlement with various taxing authorities. Liabilities for uncertain tax positions are measured based upon the largest amount of benefit that is greater than 50% likely of being realized upon ultimate settlement. We have not recorded any material interest or penalties during any of the years presented.

#### Foreign Currency

Generally, the functional currency of our international subsidiaries is the local currency. Generally, we translate the financial statements of these subsidiaries to U.S. dollars at the exchange rate in effect at the balance sheet date and revenues and expenses are translated at the average monthly exchange rates during the year. Certain of our international subsidiaries consolidate first with another subsidiary that utilizes a functional currency other than U.S. dollars. In those cases, we follow a step by step translation process utilizing the same sequence as the consolidation process. Translation adjustments are recorded as a component of accumulated other comprehensive income (loss), a separate component of stockholders' equity on our consolidated balance sheets and the effect of exchange rate changes on cash and cash equivalents are reflected on our consolidated statements of cash flows. Gains and losses for transactions denominated in a currency other than the functional currency of the entity are included in our statements of operations in selling, general and administrative expense. Foreign currency transaction losses, net were \$7.9 million in 2018, \$1.8 million in 2017 and less than \$0.3 million in 2016.

#### Revenue Recognition

We recognize revenues when we transfer control of promised goods to our customers in an amount that reflects the consideration to which we expect to be entitled to in exchange for those goods. We offer certain volume-based rebates to our distribution customers, which we consider variable consideration when calculating the transaction price. We also provide chargebacks to distributors that sell to end-customers at prices determined under a contract between us and the end-customer. In estimating the most likely rebate and chargeback amounts for use in determining the transaction price, we use information available at the time and our historical experience. We also warrant products against defects and have a policy permitting the return of defective products, for which we accrue and expense at the time of sale using information available and our historical experience. Our revenues are recorded at the net sales price, which includes an estimate for variable consideration related to rebates, chargebacks and product returns.

The vast majority of our sales of Infusion Consumables, IV Solutions, Infusion Systems and Critical Care products are sold on a standalone basis and control of these products transfers to the customer upon shipment.

Our software license renewals are considered to be transferred to a customer at a point in time at the start of each renewal period, therefore revenue is recognized at that time.

#### Arrangements with Multiple Deliverables

In certain circumstances, we enter into arrangements in which we provide multiple deliverables to our customers. These bundled arrangements typically consist of the sale of infusion systems equipment, along with annual software licenses and related software implementation services, as well as infusion consumables, IV solutions and extended warranties. Our most significant judgments related to these arrangements are (i) identifying the various performance obligations and (ii) estimating the relative standalone selling price of each performance obligation, typically using a directly observable method or calculated on a cost plus margin basis method. Revenue related to the bundled equipment, software and software implementation services are typically combined into a single performance obligation and recognized upon implementation. As annual software licenses are renewed, we recognize revenue for the license at a point in time, at the start of each annual renewal period. The transaction price allocated to the extended service-type warranty is recognized as revenue over the period the warranty service is provided. Consumables and solutions are separate performance obligations, recognized at a point in time.

#### **Shipping Costs**

Costs to ship finished goods to our customers are included in cost of goods sold on the consolidated statements of operations.

#### **Advertising Expenses**

Advertising expenses are expensed as incurred and reflected in selling, general and administrative expenses in our consolidated statements of operations and were \$0.6 million in 2018, \$0.2 million in 2017 and \$0.1 million in 2016.

#### Post-retirement and Post-employment Benefits

We sponsor a Section 401(k) retirement plan ("plan") for employees. Our contributions to our 401(k) plan were approximately \$11.4 million in 2018, \$10.3 million in 2017 and \$1.5 million in 2016. As a result of the Hospira Infusion Systems ("HIS") acquisition, we assumed certain post-retirement and post-employment obligations related to employees located in certain international countries. These obligations are immaterial to our financial statements taken as a whole.

#### Research and Development

The majority of our research and development costs are expensed as incurred. In certain circumstances when an asset will have an alternative future use we capitalize the costs related to those assets. Research and development costs include salaries and related benefits, consulting fees, production supplies, samples, travel costs, utilities and other miscellaneous administrative costs.

#### Net Income Per Share

Net income per share is computed by dividing net income by the weighted average number of common shares outstanding. Diluted net income per share is computed by dividing net income by the weighted average number of common shares outstanding plus dilutive securities. Dilutive securities include outstanding common stock options and unvested restricted stock units, less the number of shares that could have been purchased with the proceeds from the exercise of the options, using the treasury stock method. Options that are anti-dilutive, where their exercise price exceeds the average market price of the common stock are not included in the treasury stock method calculation. There were 5,300 and 337 anti-dilutive shares in 2018 and 2017, respectively. There were no anti-dilutive shares in 2016.

The following table presents the calculation of net earnings per common share ("EPS") — basic and diluted (in thousands except per share data):

		ed December except per sh	ta)
	2018	2017	2016
Net income	\$ 28,793	\$ 68,644	\$ 63,084
Weighted average number of common shares outstanding (basic)	20,394	19,614	16,168
Dilutive securities	 1,207	1,244	 1,086
Weighted average common and common equivalent shares outstanding (diluted)	21,601	20,858	17,254
EPS - basic	\$ 1.41	\$ 3.50	\$ 3.90
EPS - diluted	\$ 1.33	\$ 3.29	\$ 3.66

On February 3, 2017, as part of the purchase price for the acquisition of Pfizer Inc.'s ("Pfizer") HIS business, we delivered to Pfizer 3.2 million newly issued common shares (see Note 2: Acquisitions, Strategic Transaction and Integration Expenses).

#### **New Accounting Pronouncements**

#### Recently Adopted Accounting Standards

In March 2018, the Financial Accounting Standards Board ("FASB") issued Accounting Standard Update ("ASU") No. 2018-05, Income Taxes (Topic 740): Amendments to SEC Paragraphs Pursuant to SEC Staff Accounting Bulletin No. 118. This update adds SEC paragraphs pursuant to the SEC Staff Accounting Bulletin No. 118, which expresses the view of the staff regarding application of Topic 740, Income Taxes, in the reporting period that includes December 22, 2017 - the date on which the Tax Cuts and Jobs Act (the "Tax Act") was signed into law. We applied the provisions of this ASU in the prior year and it did not have a material impact on our consolidated financial statements.

In August 2017, the FASB issued ASU No. 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities. The amendments in this update change both the designation and measurement guidance for qualifying hedging relationships and the presentation of hedge results to facilitate financial reporting that more closely reflects an entity's risk management activities. The amendments in this update also make certain targeted improvements to simplify the application of hedge accounting guidance and ease the administrative burden of hedge documentation requirements and assessing hedge effectiveness. The amendments are effective for the fiscal years, and interim reporting periods within those years, beginning on or after December 15, 2018. For cash flow and net investment hedges existing at the date of adoption, an entity should apply a cumulative-effect adjustment related to eliminating the separate measurement of ineffectiveness to accumulated other comprehensive income with a corresponding adjustment to the opening balance of retained earnings as of the beginning of the fiscal year that an entity adopts the update. We early adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In May 2017, the FASB issued ASU No. 2017-09, Compensation-Stock Compensation (Topic 718): Scope of Modification Accounting. The amendments in this update provide guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting. Under the ASU, an entity will account for the

effects of a modification unless (i) the fair value of the modified award is the same as the fair value of the original award immediately before the original award is modified, (ii) the vesting conditions of the modified award are the same vesting conditions as the original award immediately before the original award is modified, and (iii) the classification of the modified award as an equity instrument or a liability instrument is the same as the classification of the original award immediately before the original award is modified. The amendments in this ASU are effective prospectively for annual periods, and interim periods within those annual periods, beginning after December 15, 2017. We adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In January 2017, the FASB issued ASU No. 2017-01, Business Combinations (Topic 805): Clarifying the Definition of a Business. The amendments in this update clarify the definition of a business with the objective of adding guidance to assist entities with evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The amendments in this update provide a screen to determine when a set (integrated set of assets and activities) is not a business. If the screen is not met, it (1) requires that to be considered a business, a set must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output and (2) removes the evaluation of whether a market participant could replace the missing elements. The amendments in ASU 2017-01 are effective for annual periods and interim periods within those annual periods beginning after December 15, 2017. The amendments in this ASU should be applied prospectively on or after the effective date. We adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In October 2016, the FASB issued ASU No. 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory. Current generally accepted accounting principles prohibits the recognition of current and deferred income taxes for an intra-entity asset transfer until after the asset has been sold to an outside party. The amendments in ASU 2016-16 eliminates this prohibition. Accordingly an entity should recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. Amendments in this update are effective for annual reporting periods beginning after December 15, 2017. We adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In August 2016, the FASB issued ASU No. 2016-15, Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments. ASU 2016-15 provides specific guidance on eight cash flow issues where current guidance is unclear or does not include any specifics on classification. The eight specific cash flow issues are: debt prepayment or debt extinguishment costs; settlement of zero-coupon debt instruments or other debt instruments with zero coupon interest rates that are insignificant in relation to the effective interest rate of the borrowing; contingent consideration payments made after a business combination; proceeds from the settlement of insurance claims; proceeds from the settlement of corporate-owned life insurance policies, including bank-owned policies; distributions received from equity method investees; beneficial interests in securitization transactions; and separately identifiable cash flows and application of the predominance principle. The amendments in ASU 2016-15 are effective for annual periods and interim periods within those annual periods beginning after December 15, 2017. Amendments should be applied using a retrospective transition method to each period presented. We adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In January 2016, the FASB issued ASU No. 2016-01, Financial Instruments – Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities, which amends certain aspects of recognition, measurement, presentation and disclosure of financial instruments. This amendment requires all equity investments to be measured at fair value with changes in the fair value recognized through net income (other than those accounted for under the equity method of accounting or those that result in the consolidation of the investee). The amendments in this update are effective for fiscal years beginning after December 15, 2017. We adopted this ASU on January 1, 2018 and this ASU did not have a material impact on our consolidated financial statements or related footnote disclosures.

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606). ASU 2014-09 removes inconsistencies and weaknesses in revenue requirements, provides a more robust framework for addressing revenue issues, improves comparability of revenue recognition practices across entities, industries, jurisdictions and capital markets, provides more useful information to users of financial statements through improved disclosure requirements and simplifies the preparation of financial statements by reducing the number of requirements to which an entity must refer. This guidance requires that an entity depict the consideration by applying a five-step analysis in determining when and how revenue is recognized. The new model will require revenue recognition to depict the transfer of promised goods or services to customers in

an amount that reflects the consideration a company expects to receive in exchange for those goods or services. On April 1, 2015, the FASB voted for a one-year deferral of the effective date of the new revenue recognition standard, ASU 2014-09. On July 15, 2015, the FASB affirmed these changes, which requires public entities to apply the amendments in ASU 2014-09 for annual reporting beginning after December 15, 2017. Subsequent to the issuance of this ASU, the FASB issued three amendments: ASU No. 2016-08, which clarifies principal versus agent considerations; ASU 2016-10, which clarifies guidance related to identifying performance obligations and licensing implementation; and ASU 2016-12, which provides narrow-scope improvements and practical expedients. All of the amendments have the same effective date mentioned above. We adopted the standard effective January 1, 2018. See Note 4, Revenue for a discussion of the impact and the required enhanced disclosures.

#### Recently Issued Accounting Standards

In August 2018, the FASB issued ASU No. 2018-15, Intangibles-Goodwill and Other-Internal-Use Software (Topic 350): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract. The amendments in this update align the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software and hosting arrangements that include an internal use software license. Costs to develop or obtain internal-use software that cannot be capitalized under subtopic 350-40, such as training costs and certain data conversion costs, also cannot be capitalized for a hosting arrangement that is a service contract. Therefore, an entity in a hosting arrangement that is a service contract determines which project stage (that is, preliminary project stage, application development stage, or postimplementation stage) an implementation activity relates to. Costs for implementation activities in the application development stage are capitalized depending on the nature of the costs, while costs incurred during the preliminary project and postimplementation stages are expensed as the activities are performed. The amendments in this update require the entity to expense the capitalized implementation costs of a hosting arrangement that is a service contract over the term of the hosting arrangement. The amendments in this update are effective for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years. The amendments in this update should be applied either retrospectively or prospectively to all implementation costs incurred after the date of adoption. We are currently evaluating the impact of this ASU on the consolidated financial statements and related disclosures.

In August 2018, the FASB issued ASU No. 2018-13, Fair Value Measurement (Topic 820): Disclosure Framework -Changes to the Disclosure Requirements for Fair Value Measurement. The amendments in this update modify the disclosure requirements in Topic 820. The amendments remove from disclosure: the amount of and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy; the policy for timing of transfers between levels 3; and the valuation processes for Level 3 fair value measurements. The amendments also made the following disclosure modifications: for investments in certain entities that calculate net asset value, an entity is required to disclose the timing of liquidation of an investee's assets and the date when restrictions from redemption might lapse only if the investee has communicated the timing to the entity or announced the timing publicly; and the amendments clarify that the measurement uncertainty disclosure is to communicate information about the uncertainty in measurement as of the reporting date. The amendments also added the following disclosure requirements: the changes in unrealized gains and losses for the period included in other comprehensive income for recurring Level 3 fair value measurements held at the end of the reporting period; and the range and weighted average of significant unobservable inputs used to develop Level 3 fair value measurements. For certain unobservable inputs, an entity may disclose other quantitative information (such as the median or arithmetic average) in lieu of the weighted average if the entity determines that other quantitative information would be a more reasonable and rational method to reflect the distribution of unobservable inputs used to develop Level 3 fair value measurements. The amendments in ASU 2018-02 are effective for fiscal years beginning after December 15, 2019. Early adoption is permitted. We are currently evaluating the impact of this ASU on the consolidated financial statements and related disclosures.

In February 2018, the FASB issued ASU No. 2018-02, Income Statement-Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income. The amendments in this update allow a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Cuts and Jobs Act. The amendments in this update also require certain disclosures about stranded tax effects. The amendments in ASU 2018-02 are effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. We are not electing to reclassify from accumulated OCI to retained earnings stranded tax effects resulting from the Tax Cuts and Jobs Act (the "Tax Act").

In January 2017, the FASB issued ASU No. 2017-04, Intangibles-Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment. The amendments in this update remove the second step of the impairment test. An entity will apply a one-step quantitative test and record the amount of goodwill impairment as the excess of a reporting unit's carrying amount over its fair value, not to exceed the total amount of goodwill allocated to the reporting unit. The new guidance does not amend the optional qualitative assessment of goodwill impairment. The amendments in ASU 2017-04 are effective for the annual or interim impairment test in fiscal years beginning after December 15, 2019. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. This ASU is not expected to have a material impact on our consolidated financial statements or related footnote disclosures.

In June 2016, the FASB issued ASU No. 2016-13, Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments. This update amends the FASB's guidance on the impairment of financial instruments by requiring timelier recording of credit losses on loans and other financial instruments. The ASU adds an impairment model that is based on expected losses rather than incurred losses. The ASU also amends the accounting for credit losses on available-for-sale debt securities and purchased financial assets with credit deterioration. The amendments in this update will be effective for fiscal years beginning after December 15, 2019. Early adoption is permitted as of the fiscal years beginning after December 15, 2018. The updated guidance requires a modified retrospective adoption. In November 2018, the FASB issued ASU No. 2018-19, Codification Improvements to Topic 326, Financial Instruments-Credit Losses. This update clarifies that receivables arising from operating leases are not within the scope of this guidance, instead, impairment of receivables arising from operating leases should be accounted for in accordance with the lease guidance. This update has the same effective date as ASU No. 2016-13. We are currently evaluating the impact of this ASU on the consolidated financial statements and related disclosures.

In February 2016, the FASB issued ASU No. 2016-02, Leases (Topic 842). The amendments in this update require an entity to recognize a Right Of Use asset and lease liability for all leases with terms of more than 12 months. Recognition, measurement and presentation of expenses will depend on classification as finance or operating lease. The amendments also require certain quantitative and qualitative disclosures about leasing arrangements. The updated guidance requires a modified retrospective adoption. In July 2018, the FASB issued ASU No. 2018-11, Targeted Improvements. The amendments in this update will provide entities with an additional (and optional) transition method to adopt the new lease requirements by allowing entities to initially apply the requirements by recognizing a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The amendments in this update also provide lessors with a practical expedient, by class of underlying asset, to not separate nonlease components from the associated lease contract. This expedient is limited to circumstances in which the nonlease components otherwise would be accounted for under the new revenue guidance and both (1) the timing and pattern of transfer are the same for the nonlease components and associated lease component and (2) the lease component, if accounted for separately, would be classified as an operating lease. If the lessor uses this practical expedient they would account for the lease contract in accordance with Topic 606 if the nonlease component is the predominant component otherwise, the lessor should account for the combined component as an operating lease in accordance with Topic 842. In July 2018, the FASB issued ASU No. 2018-10, Codification Improvements to Topic 842, Leases. This ASU clarifies certain language in ASU 2016-02 and corrects certain references and inconsistencies. In December 2018, the FASB issued ASU No. 2018-20-Leases-Narrow-Scope Improvements for Lessors. The amendments in this update permit lessors, as an accounting policy election, to not evaluate whether certain sales taxes and other similar taxes are lessor costs. If an entity takes this policy election sales taxes will be excluded from the consideration in the contract. The amendments in this update related to certain lessor costs permit lessors to exclude from variable payments, and therefore revenue, lessor costs paid by lessees directly to third parties from variable payments. The amendments also require lessors to account for costs excluded from the consideration of a contract that are paid by the lessor and reimbursed by the lessee as variable payments. A lessor will record those reimbursed costs as revenue. The amendments in this update related to recognizing variable payments for contracts with lease and nonlease components require lessors to allocate certain variable payments to the lease and nonlease components when the changes in facts and circumstances on which the variable payment is based occur. After the allocation, the amount of variable payments allocated to the lease components will be recognized as income in profit or loss in accordance with the lease guidance, while the amount of variable payments allocated to nonlease components will be recognized in accordance with other guidance. The amendments in these updates are effective for fiscal years beginning after December 15, 2018. We adopted ASU 2016-02, ASU 2018-11, ASU 2018-10 and ASU 2018-20 effective January 1, 2019. We elected the 'package of practical expedients', which permits us not to reassess under the new standard our prior conclusions about lease identification, lease classification and initial direct costs. We did not elect the use-of-hindsight or the practical expedient pertaining to land easements; the latter not being applicable to us. We elected the short-term lease recognition exemption for all leases that qualify. This means, for those leases that qualify, we did not recognize Right Of Use assets or lease liabilities, and this includes not

recognizing Right Of Use assets or lease liabilities for existing short-term leases of those assets in transition. Furthermore, elected the practical expedient to not separate lease and non-lease components for all of our leases. We adopted ASU 2016-02 utilizing the modified retrospective transition method through a cumulative-effect adjustment at the beginning of the first quarter of 2019. We expect the adoption of ASU 2016-02 to result in the recognition of right-of-use assets and lease liabilities for operating leases of approximately \$35.0 million to \$50.0 million on our consolidated balance sheet, with no material impact to our consolidated statements of operations. We continue to evaluate the impact the adoption of this new guidance will have on our financial statements and related disclosures, in addition to the continued evaluation of business processes and internal controls related to lease accounting.

#### NOTE 2. ACQUISITIONS, STRATEGIC TRANSACTION AND INTEGRATION EXPENSES

Significant 2017 Acquisitions

On February 3, 2017, we acquired 100% interest in Pfizer's HIS business for total cash consideration of approximately \$260.0 million (net of estimated working capital adjustments paid at closing), which was financed with existing cash balances and a \$75 million three-year interest-only seller note. We also issued 3.2 million shares of our common stock. The fair value of the common shares issued to Pfizer was determined based on the closing price of our common shares on the closing date, discounted to reflect a contractual lock-up period whereby Pfizer cannot transfer the shares, subject to certain exceptions, until the earlier of (i) the expiration of Pfizer's services to us in the related transitional services agreement or (ii) eighteen months from the closing date. Additionally, Pfizer also may be entitled up to an additional \$225 million in cash contingent consideration based on the achievement of performance targets for the combined company for the three years ending December 31, 2019 ("Earnout Period"). In the event that the sum of our Adjusted EBITDA as defined in the Amended and Restated Stock and Asset Purchase Agreement between us and Pfizer (the "HIS Purchase Agreement") for the three years in the Earnout Period (the "Cumulative Adjusted EBITDA") is equal to or exceeds approximately \$1 billion ("the "Earnout Target"), then Pfizer will be entitled to receive the full amount of the earnout. In the event that the Cumulative Adjusted EBITDA is equal to or greater than 85% of the Earnout Target (but less than the Earnout Target), Pfizer will be entitled to receive the corresponding percentage of the earnout. In the event that the Cumulative Adjusted EBITDA is less than 85% of the Earnout Target, then no earnout amount will be earned by Pfizer. The initial fair value of the earn-out was determined by employing a Monte Carlo simulation in a risk neutral framework. The underlying simulated variable was adjusted EBITDA. The adjusted EBITDA volatility estimate was based on a study of historical asset volatility for a set of comparable public companies. The model includes other assumptions including the market price of risk, which was calculated as the weighted average cost of capital ("WACC") less the long term risk free rate. We believe that the acquisition of the HIS business, which includes IV pumps, solutions and consumable devices complements our pre-existing business by creating a company that has a complete infusion therapy product portfolio. We believe that the acquisition significantly enhances our global footprint and platform for continued competitiveness and growth.

With the acquisition of HIS, pre-existing long-term supply and distribution contracts between ICU and HIS were effectively terminated.

Deferred Closings

In the HIS Purchase Agreement, we agreed with Pfizer to defer the local closing of the HIS business in certain foreign jurisdictions (the "Deferred Closing Businesses") for periods ranging by jurisdiction from 3 to 12 months after the February 3, 2017 closing date (the "Deferred Closing Period"). The net assets in these jurisdictions represent an immaterial portion of the total HIS business net assets.

At the February 3, 2017 HIS business transaction closing, we entered into a Net Economic Benefit Agreement with Pfizer under which we agreed that (i) during the Deferred Closing Period, the economic benefits and burdens of the Deferred Closing Businesses are for our account, and we are to be treated as the beneficial owner of the Deferred Closing Businesses and (ii) Pfizer would continue to operate the Deferred Closing Businesses under our direction.

All of the deferred closing businesses were effectively closed in 2017.

#### Purchase Price

The following table summarizes the final purchase price and the final allocation of the purchase price related to the assets and liabilities purchased (in thousands, except per share data):

Cash consideration for acquired assets	\$ 180,785
Fair value of Seller Note	75,000
Fair value of contingent consideration payable to Pfizer (long-term)	19,000
Issuance of ICU Medical, Inc. common shares:	
Number of shares issued to Pfizer	3,200
Price per share (ICU's trading closing share price on the Closing Date)	\$ 140.75
Market price of ICU shares issued to Pfizer	\$ 450,400
Less: Discount due to lack of marketability of 8.3%	(37,261)
Equity portion of purchase price	413,139
Total Consideration	\$ 687,924
Purchase Price Allocation:	
Cash and cash equivalents	\$ 31,082
Trade receivables	362
Inventories	417,622
Prepaid expenses and other assets	13,911
Property, plant and equipment	288,134
Intangible assets <sup>(1)</sup>	131,000
Other assets	29,270
Accounts payable	(12,381)
Accrued liabilities	(47,936)
Long-term liabilities <sup>(2)</sup>	(67,170)
Total identifiable net assets acquired	\$ 783,894
Deferred tax, net	 (25,080)
Estimated Gain on Bargain Purchase	(70,890)
Estimated Purchase Consideration	\$ 687,924

The fair value of the assets acquired and liabilities assumed exceeded the fair value of the consideration to be paid resulting in a bargain purchase gain. Before recognizing a gain on a bargain purchase, we reassessed the methods used in the purchase accounting and verified that we had identified all of the assets acquired and all of the liabilities assumed, and that there were no additional assets or liabilities to be considered. We also reevaluated the fair value of the contingent consideration transferred to determine that it was appropriate. We determined that the bargain purchase gain was primarily attributable to

<sup>(1)</sup> Identifiable intangible assets includes \$48 million of customer relationships, \$44 million of developed technology - pumps and dedicated sets, \$34 million of developed technology - consumables, and \$5 million of in-process research and development ("IPR&D"). The weighted amortization period for the total identifiable assets is approximately nine years, for customer relationships the weighted amortization period is eight years, for the developed technology - pumps and dedicated sets the weighted amortization period is ten years and for the developed technology - consumables the weighted amortization period is twelve years. The IPR&D is non-amortizing until the associated research and development efforts are complete.

<sup>(2)</sup> Long-term liabilities primarily consisted of contract liabilities, product liabilities and long-term employee benefits.

expected restructuring costs as well as a reduction to the initially agreed upon transaction price caused primarily by revenue shortfalls across all market segments of the HIS business, negative manufacturing variance due to the drop in revenue and higher operating and required stand up costs, when compared to forecasts of the HIS business at the time that the purchase price was agreed upon. After the continuing review of the product demand and operations of the HIS Business, including the resulting expected restructuring activities, we forecasted our estimated Adjusted EBITDA from the HIS business in 2017 to be \$35 million - \$40 million, which was considerably lower than the forecast contemplated in initial negotiations with Pfizer, which resulted in an estimated fair value of \$19 million related to the \$225 million earn out. Restructuring costs, if incurred, will be expensed in future periods (see Note 3: Restructuring Charges). The bargain purchase gain is separately stated below income from operations in the accompanying consolidated statements of operations for the year ended December 31, 2017.

The identifiable intangible assets and other long-lived assets acquired have been valued as Level 3 assets at fair market value. The estimated fair value of identifiable intangible assets were developed using the income approach and are based on critical estimates, judgments and assumptions derived from: analysis of market conditions; discount rate; discounted cash flows; royalty rates; customer retention rates; and estimated useful lives. Fixed assets were valued with the consideration of remaining economic lives. The raw materials inventory was valued at historical cost and adjusted for any obsolescence, the work in process was valued at estimated sales proceeds less costs to complete and costs to sell, and finished goods inventory was valued at estimated sales proceeds less a nominal profit and costs to sell. The prepaid expenses and other current assets and assumed liabilities were recorded at their carrying values as of the date of the acquisition, as their carrying values approximated their fair values due to their short-term nature.

#### Unaudited Pro Forma Information

The pro forma financial information in the table below summarizes the combined results of operations for ICU and HIS as though the companies were combined as of the beginning of fiscal 2016. The pro forma financial information for all periods presented also includes the business combination accounting effects resulting from this acquisition including our amortization charges from acquired intangible assets, nonrecurring expense related to the fair value adjustment to acquisition-date inventory, acquisition and integration-related costs, interest expense on the Pfizer seller note and the related tax effects as though the aforementioned companies were combined as of the beginning of fiscal 2016. The pro forma financial information as presented below is for informational purposes only and is not indicative of the results of operations that would have been achieved if the acquisitions had taken place at the beginning of fiscal 2016.

(In millions)	R	Revenue	Earnings		
Actual from 2/3/2017 - 12/31/2017 <sup>(3)</sup>	\$	1,062	*		
2017 supplemental pro forma from 1/1/2017 - 12/31/2017 <sup>(1)(2)</sup>	\$	1,373 \$		91	
2016 supplemental pro forma from 1/1/2016 - 12/31/2016 <sup>(1)(2)</sup>	\$	1,418 \$		99	

<sup>\*</sup> Impracticable to calculate.

#### Strategic Transaction and Integration Expenses

In 2018, we incurred \$100.9 million in transaction and integration costs primarily related to our acquisition of HIS. In 2017, we incurred \$59.2 million in transaction and integration costs primarily related to our acquisition of HIS. In 2016, we incurred \$14.3 million in transaction costs primarily related to our 2017 acquisition of HIS.

<sup>(1) 2017</sup> supplemental pro forma earnings were adjusted to exclude \$66.3 million of nonrecurring expense related to the fair value adjustment to acquisition-date inventory, \$59.2 million of acquisition and integration-related costs and \$70.9 million in bargain purchase gain. 2016 supplemental pro forma earnings were adjusted to include these charges. These amounts were updated in 2018 from the 2017 disclosed amounts to incorporate information not previously available.

<sup>(2)</sup> Unaudited.

<sup>(3)</sup> Amount represents activity of HIS from the date of the acquisition.

#### NOTE 3. RESTRUCTURING CHARGES

In 2018 and 2017, we incurred restructuring charges related to the acquisition of the HIS business (see Note 2: Acquisitions, Strategic Transaction and Integration Expenses). The restructuring charges were incurred as a result of integrating the acquired operations into our business and include severance costs related to involuntary employee terminations and facility exit costs related to the closure of the Dominican Republic manufacturing facilities acquired from Pfizer. All material charges in regard to these restructuring activities have been paid as of December 31, 2018. The cumulative amount incurred to date in connection with the HIS acquisition is \$23.1 million.

In 2016, we incurred an additional 0.8 million related to the closure of our Slovakian manufacturing facility. Additionally, we incurred \$0.2 million related to a one-time charge unrelated to the events disclosed in the table below.

In 2015, we incurred restructuring charges related to an agreement with Dr. Lopez, a member of our Board of Directors and a former employee in our research and development department, pursuant to which we bought out Dr. Lopez's right to employment under his then-existing employment agreement, the buy-out, including payroll taxes, will be paid in equal monthly installments until December 2020 and payments that will exceed one year have been accrued under long-term liabilities in our consolidated balance sheet.

The following table summarizes the activity for the restructuring-related charges discussed above and related accrual (in thousands):

	E	accrued Balance nuary 1, 2017	Charges incurred	Payments	Ac	Other ljustments	Accrued Balance ecember 31, 2017	Charges incurred	Payments	Other Adjustments	Accrued Balance December 2018	e
Severance pay and benefits	\$	53	\$ 15,983	\$ (15,104)	\$	(17)	\$ 915	\$ 4,311	\$ (4,549)	\$ —	\$ 6	577
Employment agreement buyout		1,477	_	(363)		_	1,114	_	(368)	(7)	7	739
Retention and facility closure expenses			2,789	(2,789)				160	(160)			_
	\$	1,530	\$ 18,772	\$ (18,256)	\$	(17)	\$ 2,029	\$ 4,471	\$ (5,077)	\$ (7)	\$ 1,4	416

#### **NOTE 4: REVENUE**

Adoption of ASC Topic 606, "Revenue from Contracts with Customers"

We adopted ASU No. 2014-09, Revenue from Contracts with Customers (ASC Topic 606), effective January 1, 2018 using the modified retrospective method applied to those contracts which were not completed as of January 1, 2018. Results for reporting beginning after January 1, 2018 are presented under ASC Topic 606, while prior period amounts are not adjusted and will continue to be reported in accordance with our historic accounting under ASC Topic 605, Revenue Recognition.

Due to the cumulative impact, net of tax, of adopting ASC Topic 606, we recorded a net increase of \$6.3 million to opening retained earnings as of January 1, 2018. The impact is primarily related to our bundled arrangements where we sell software licenses and implementation services, in addition to equipment, consumables and solutions. Under ASC Topic 605, revenue for the equipment was recognized upon delivery and software licenses and implementation services were typically recognized over the contract term. Under ASC Topic 606, revenue for the bundled equipment, software and software implementation services are recognized upon implementation. This results in an acceleration of software related revenue, offset by a delay in the recognition of related revenue of the equipment. Under ASC Topic 605, consumables and solutions revenues were typically recognized upon delivery. Under ASC 606, consumables and solutions revenues are recognized as the customer obtains control of the asset, which is at shipping point. This results in an acceleration in the recognition of consumables and solutions revenue.

Additionally, the timing of revenue recognition for software license renewals changed under ASC Topic 606. Under ASC Topic 605, revenue related to software renewals was recognized on a ratable basis over the license period. Under ASC Topic 606, the license, which is considered functional IP, is considered to be transferred to the customer at a point in time,

specifically, at the start of each annual renewal period. As a result, under ASC Topic 606, revenue related to our annual software license renewals is accelerated when compared to ASC Topic 605.

Revenues are recognized when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services.

The following tables represent the amounts by which each financial statement line item is affected in the current year as a result of applying ASC Topic 606 (in thousands):

		For the year ended December 31, 2018						
	As Reported	Without Adoption of ASC 606	Effect of Adoption					
Revenue	\$ 1,400,040	\$ 1,388,923	\$ 11,117					
Cost of goods sold	\$ 830,012	\$ 826,607	\$ 3,405					
Gross Profit	\$ 570,028	\$ 562,316	\$ 7,712					

	 <b>As of December 31, 2018</b>								
	As Reported	W	ithout Adoption of ASC Topic 606	Effect of Adoption					
Prepaid expenses and other current assets	\$ 25,980	\$	32,487	\$	(6,507)				
Accrued liabilities	\$ 128,820	\$	151,408	\$	(22,588)				
Deferred income taxes	\$ 38,654	\$	40,653	\$	(1,999)				

#### Revenue Recognition

We report revenue on a "where sold" basis, which reflects the revenue within the country or region in which the ultimate sale is made to our external customer.

The following table represents our revenues disaggregated by geography (in thousands):

	For the year ended December 31,									
Geography	2018 2017 (1)					<b>2016</b> <sup>(1)</sup>				
Europe, the Middle East and Africa	\$	134,363	\$	119,934	\$	50,105				
Other Foreign		210,996		192,640		67,573				
Total Foreign		345,359		312,574		117,678				
United States		1,054,681		980,039		261,694				
<b>Total Revenues</b>	\$	1,400,040	\$	1,292,613	\$	379,372				

<sup>(1)</sup> As noted above, prior period amounts have not been adjusted under the modified retrospective method.

Domestic sales accounted for 75%, 76% and 69% of total revenue in 2018, 2017 and 2016, respectively. International sales accounted for 25%, 24% and 31% of total revenue in 2018, 2017 and 2016, respectively.

The following table represents our revenues disaggregated by product line (in thousands) and our disaggregated product line revenue as a percentage of total revenue:

### For the year ended December 31,

	2018		2017 (1)			2016 <sup>(1)</sup>			
Product line		Revenue	% of Revenue		Revenue	% of Revenue		Revenue	% of Revenue
Infusion Consumables	\$	483,039	35%	\$	365,665	28%	\$	324,868	86%
IV Solutions		507,985	36%		521,963	40%		_	%
Infusion Systems		355,484	25%		290,207	23%		_	%
Critical Care		53,532	4%		49,961	4%		53,601	14%
Other		_	%		64,817	5%		903	%
<b>Total Revenues</b>	\$	1,400,040	100%	\$	1,292,613	100%	\$	379,372	100%

<sup>(1)</sup> As noted above, prior period amounts have not been adjusted under the modified retrospective method.

Our primary product lines are Infusion Consumables, IV Solutions, Infusion Systems and Critical Care. The vast majority of our sales of these products are made on a stand-alone basis to hospitals, group purchasing organization member hospitals, distributors and to other non-acute facilities. Our product sales are typically free on board shipping point and ownership of the product transfers to the customer upon shipment. As a result, revenue is typically recognized upon transfer of control of the products, which we deem to be at point of shipment.

Payment is typically due in full within 30 days of invoicing. Revenue is recorded in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services. We offer certain volume-based rebates to our distribution customers, which we record as variable consideration when calculating the transaction price. We also provide chargebacks to distributors that sell to end-customers at prices determined under a contract between us and the end-customer. We use information available at the time and our historical experience to estimate and record provisions for rebates and chargebacks.

We also warrant products against defects and have a policy permitting the return of defective products, for which we accrue and expense at the time of sale using information available and our historical experience. We also provide for extended service-type warranties, which we consider to be separate performance obligations. We allocate a portion of the transaction price to the extended service-type warranty based on its estimated relative selling price, and recognize revenue over the period the warranty service is provided. Our revenues are recorded at the net sales price, which includes an estimate for variable consideration related to rebates, chargebacks and product returns.

Arrangements with Multiple Performance Obligations

We also enter into arrangements which include multiple performance obligations, see Note 1, Basis of Presentation and Summary of Significant Accounting Policies.

The most significant judgments related to these arrangements include:

- Identifying the various performance obligations of these arrangements.
- Estimating the relative standalone selling price of each performance obligation, typically using directly observable method or calculated on a cost plus margin basis method.

#### Contract balances

Our contract balances (deferred revenue) are recorded in accrued liabilities and other long-term liabilities in our consolidated balance sheet (see Note 10, Accrued Liabilities). The following table presents our changes in the contract balances for the year ended December 31, 2018, (in thousands):

	Contra	ct Liabilities
Beginning balance, January 1, 2018	\$	(7,066)
Equipment revenue recognized		6,696
Equipment revenue deferred due to implementation		(4,196)
Software revenue recognized		6,553
Software revenue deferred due to implementation		(6,269)
Ending balance, December 31, 2018	\$	(4,282)

As of December 31, 2018, revenue from remaining performance obligations related to implementation of software and equipment is \$2.9 million. We expect to recognize substantially all of this revenue within the next three months. Revenue from remaining performance obligations related to annual software licenses is \$1.6 million. We expect to recognize substantially all of this revenue over the next twelve months.

#### Costs to Obtain a Contract with a Customer

As part of the cost to obtain a contract, we may pay incremental commissions to sales employees upon entering into a sales contract. Under ASC Topic 606, we have elected to expense these costs as incurred as the period of benefit is less than one year.

#### Practical expedients and exemptions

In addition to the practical expedient applied to sales commissions, under ASC Topic 606, we elected to apply the practical expedient for shipping and handling costs incurred after the customer has obtained control of a good. We will continue to treat these costs as a fulfillment cost rather than as an additional promised service.

#### NOTE 5. IMPAIRMENT OF ASSETS HELD FOR SALE

During 2016, we completed the closure of our Slovakia manufacturing facility and sold the land and building held-forsale for \$3.3 million, net of costs to sell, resulting in an additional \$0.7 million impairment charge on those assets.

The impairment charges are separately stated in our consolidated statements of operations above income from operations.

#### NOTE 6. SHARE BASED AWARDS

We have a stock incentive plan for employees and directors and an employee stock purchase plan. Shares to be issued under these plans will be issued either from authorized but unissued shares or from treasury shares.

We incur stock compensation expense for stock options, restricted stock units ("RSU"), performance restricted stock units ("PRSU") and in years prior to 2018 stock purchased under our employee stock purchase plan ("ESPP"). We receive a tax benefit on stock compensation expense and direct tax benefits from the exercise of stock options. We also have indirect tax benefits upon exercise of stock options related to research and development tax credits which are recorded as a reduction of income tax expense.

The table below summarizes compensation costs and related tax benefits (in thousands):

	 Year ended December 31,						
(In thousands)	 2018		2017		2016		
Stock compensation expense	\$ 24,241	\$	19,352	\$	15,242		
Tax benefit from stock-based compensation cost	\$ 5,706	\$	7,247	\$	5,682		
Indirect tax benefit	\$ 2,199	\$	1,374	\$	_		

As of December 31, 2018, we had \$28.0 million of unamortized stock compensation cost which we will recognize as an expense over approximately 0.9 years.

Stock Incentive and Stock Option Plans

Our 2011 Stock Incentive Plan ("2011 Plan") replaced our 2003 Stock Option Plan ("2003 Plan"). Our 2011 Plan initially had 650,000 shares available for issuance, plus the remaining available shares for grant from the 2003 Plan. In 2012, 2014 and 2017, our stockholders approved amendments to the 2011 plan that increased the shares available for issuance by 3,275,000, bringing the initial shares available for issuance to 3,925,000, plus the remaining 248,700 shares that remained available for grant from the 2003 Plan. In addition, any forfeited, terminated or expired shares that would otherwise return to the 2003 Plan are available under the 2011 Plan. As of December 31, 2018, the 2011 Plan has 4,188,300 shares of common stock reserved for issuance to employees, which includes 263,300 shares that transferred from the 2003 Plan. Shares issued as options or stock appreciation rights ("SARs") are charged against the 2011 Plan's share reserve as one share for one share issued. Shares subject to awards other than options and SARs are charged against the 2011 Plan's share reserve as 2.09 shares for 1 share issued. Options may be granted with exercise prices at no less than fair market value at date of grant. Options granted under the 2011 Plan may be "non-statutory stock options" which expire no more than ten years from date of grant or "incentive stock options" as defined in Section 422 of the Internal Revenue Code of 1986, as amended. Upon exercise of nonstatutory stock options, we are generally entitled to a tax deduction on the exercise of the option for an amount equal to the excess over the exercise price of the fair market value of the shares at the date of exercise; we are generally not entitled to any tax deduction on the exercise of an incentive stock option. The 2011 Plan includes conditions whereby unvested options are cancelled if employment is terminated.

In 2014, our Compensation Committee of the Board of Directors awarded our then new Chief Executive Officer an employment inducement option to purchase 182,366 shares of our common stock and an employment inducement grant of restricted stock units with respect to 68,039 shares of our common stock. The inducement grants were made out of our 2014 Inducement Incentive Plan ("2014 Plan").

Our 2001 Directors' Stock Option Plan (the "Directors' Plan"), initially had 750,000 shares reserved for issuance to members of our Board of Directors, expired in November 2011. Although no new grants may be made under the Director's Plan, grants made under the Director's Plan prior to its expiration continue to remain outstanding. Options not vested terminate if the directorship is terminated.

#### Time-based Stock Options

To date, all options granted under the 2014 Plan, 2011 Plan, 2003 Plan and Directors' Plan have been non-statutory stock options. The majority of the time-based outstanding employee option grants vest 25% after one year from the grant date and the balance vests ratably on a monthly basis over 36 months. The majority of the outstanding options granted to non-employee directors vest one year from the grant date. The options generally expire 10 years from the grant date.

The fair value of time-based option grants is calculated using the Black-Scholes option valuation model. The expected term for the option grants was based on historical experience and expected future employee behavior. We estimate the volatility of our common stock at the date of grant based on the historical volatility of our common stock, based on the average expected exercise term. The table below summarizes the total time-based stock options granted, total valuation and the weighted average assumptions (dollars in thousands, except per option amounts):

	Year ended December 31,							
		2018	2017			2016		
Number of time-based options granted		5,815		8,825		13,405		
Grant date fair value of options granted (in thousands)	\$	425	\$	375	\$	413		
Weighted average assumptions for stock option valuation:								
Expected term (years)		5.5		5.5		5.5		
Expected stock price volatility		24.0%		27.0%		31.8%		
Risk-free interest rate		2.3%		1.1%		0.7%		
Expected dividend yield		<u> </u>		<u> </u>		<u> </u>		
Weighted average grant price per option	\$	269.80	\$	158.20	\$	101.32		
Weighted average grant date fair value per option	\$	73.14	\$	42.51	\$	30.78		

#### Performance Stock Options

In 2015, we granted performance stock option grants which are exercisable if the common stock price condition and the time-based vesting have been met. The 2015 performance based stock option grants vest ratably at 33% per year over three years. For the 2015 grants, the vested performance stock options became exercisable when the closing price of our common stock was equal to or more than 130% of the exercise price for 30 consecutive trading days during the term of the grant. All of the 2015 performance stock option grant's common stock price conditions have been met.

The fair value of performance option grants is calculated using the Monte Carlo Simulation. The expected term of the performance option grants is based on the expected number of years to achieve the exercisable goal trigger and assumes that the vested option will be immediately exercised or cancelled, if underwater. We estimate the volatility of our common stock at the date of grant based on the historical volatility of our common stock over a 10-year period.

The table below indicates the number of shares of 2015 performance stock options that were earned in 2016. There were no performance option grants to employees in 2018, 2017 or 2016.

	Year ended December 31,					
	2018 2017 20					
Number of performance options earned			244,825			

A summary of our stock option activity as of and for the year ended December 31, 2018 is as follows:

	Shares	Exe	Veighted Average rcise Price er Share	Weighted Average Contractual Life (Years)	Int	Aggregate rinsic Value thousands)
Outstanding at December 31, 2017	1,416,727	\$	62.30			
Granted	5,815	\$	269.80			
Exercised	(235,614)	\$	60.60			
Forfeited or expired		\$	_			
Outstanding at December 31, 2018	1,186,928	\$	63.66	4.9	\$	197,232
Exercisable at December 31, 2018	1,181,113	\$	62.64	4.8	\$	197,232
Vested and expected to vest, December 31, 2018	1,186,928	\$	63.66	4.9	\$	197,232

The intrinsic values for options exercisable, outstanding and vested or expected to vest at December 31, 2018 is based on our closing stock price of \$229.63 at December 31, 2018 and are before applicable taxes.

The following table presents information regarding Stock Option activity:

	 Year ended December 31,						
(In thousands)	2018		2017		2016		
Intrinsic value of options exercised	\$ 51,105	\$	71,283	\$	25,065		
Cash received from exercise of stock options	\$ 14,275	\$	32,003	\$	17,346		
Tax benefit from stock option exercises	\$ 12,617	\$	20,004	\$	7,556		

#### Stock Awards

In 2018, we granted performance restricted stock units ("PRSU") to our executive officers. For the executive officers other than the Chief Executive Officer ("CEO") and the Chief Operations Officer ("COO"), the PRSUs will vest subject to a three-year time vesting and further subject to a determination by the Compensation Committee that the officers have met their individual performance goals for the applicable year. For the CEO and the COO, the performance shares will cliff-vest ending on February 15, 2021 and further subject to the achievement of a minimum Cumulative Adjusted EBITDA. If for the three year period ending on December 31, 2020 the Cumulative Adjusted EBITDA has a growth of at least 6% to 8%, 50% of the awarded units will vest. If on the vest date the Cumulative Adjusted EBITDA has a growth of between 8% to 10%, 100% of the awarded units will vest. If on the vest date the Cumulative Adjusted EBITDA has a growth of over 10%, 200% of the awarded units will vest.

In 2017, we granted PRSUs to our executive officers. The PRSUs will vest, if at all, upon the achievement of a minimum Cumulative Adjusted EBITDA, subject to a three-year cliff vesting ending on December 31, 2019. If at that date, our Cumulative Adjusted EBITDA is at least \$600 million but less than \$650 million, 100% of the awarded units will vest. If our Cumulative Adjusted EBITDA is at least \$650 million but less than \$700 million, 200% of the awarded units will vest. If our Cumulative Adjusted EBITDA is at least \$700 million, 300% of the awarded units will vest.

In 2016, we granted PRSUs to our executive officers, which will vest, if at all, upon the achievement of a minimum specified compound annual growth rate ("CAGR") in adjusted EBITDA per share, subject to a three-year cliff vesting ending on December 31, 2018. If at that date, our adjusted EBITDA per share CAGR is at least 8% but less than 10%, 100% of the awarded units will vest. If our adjusted EBITDA per share CAGR is at least 10% but less than 12%, 200% of the awarded units will vest. If our adjusted EBITDA per share CAGR is greater than 12%, 300% of the awarded units will vest. The Compensation Committee has up until March 15, 2019 to make a determination on the level of achievement of minimum Cumulative Adjusted EBITDA reached, the awards will vest upon the conclusion of that determination.

Restricted stock units ("RSU") are granted annually to our Board of Directors and vest on the first anniversary of the grant date.

In 2018, 2017 and 2016, we granted RSUs to certain employees that vest ratably on the anniversary of the grant over three years. We recognize forfeitures as they occur.

The table below summarizes our restricted stock award activity (dollars in thousands):

	Year ended December 31,					
(In thousands except shares and per share amounts)		2018		2017		2016
PRSU						
Shares granted		30,348		20,686		36,370
Shares earned		_		_		_
Grant date fair value per share	\$	248.65	\$	154.75	\$	86.47
Grant date fair value	\$	7,546	\$	3,201	\$	3,145
Intrinsic value vested	\$	_	\$	_	\$	_
RSU						
Shares granted		63,094		107,678		60,377
Grant date fair value per share	\$	252.42	\$	156.49	\$	87.47
Grant date fair value	\$	15,926	\$	16,851	\$	5,281
Intrinsic value vested	\$	17,086	\$	9,813	\$	4,680

The table below provides a summary of our PRSU and RSU activity as of and for the year ended December 31, 2018.

	Number of Units	 int Date Fair ue Per Share	Weighted Average Contractual Life (Years)	ggregate Insic Value
Non-vested at December 31, 2017	285,503	\$ 116.28		
Change in units due to performance expectations (a)	41,372	\$ 154.75		
Granted	93,442	\$ 251.19		
Vested	(71,868)	\$ 122.00		
Forfeited	(7,745)	\$ 181.07		
Non-vested and expected to vest at December 31, 2018	340,704	\$ 155.27	1.0	\$ 78,236

<sup>(</sup>a) Relates to the 2017 PRSUs, assumes attainment of maximum payout rate as set forth in performance criteria.

#### **ESPP**

We have an ESPP under which U.S. employees may purchase up to \$25,000 annually of common stock at 85% of its fair market value at the beginning or the end of a six-month offering period, whichever is lower. There are 750,000 shares of common stock reserved for issuance under the ESPP, which is subject to an annual increase of the least of 300,000 shares, two percent of the shares outstanding or such a number as determined by the Board. To date, there have been no increases. As of December 31, 2018, there were 133,487 shares available for future issuance. The ESPP is intended to constitute an "employee stock purchase plan" within the meaning of Section 423 of the Internal Revenue Code. During 2017, we suspended our ESPP.

The fair value of rights to purchase shares under the ESPP is calculated using the Black-Scholes option valuation model. The table below summarizes the number and intrinsic value of ESPP share purchases and the weighted average valuation assumptions for the 2017 and 2016 purchase periods.

	2017	2016
ESPP shares purchased by employees	23,426	31,227
Intrinsic value of ESPP purchases (in thousands)	\$ 986	\$ 955
Weighted average assumptions for ESPP valuation:		
Expected term (in years)	0.5	0.5
Expected stock price volatility	28.1%	32.5%
Risk-free interest rate	0.6%	0.3%
Expected dividend yield	%	%

#### NOTE 7. DERIVATIVES AND HEDGING ACTIVITIES

Hedge Accounting and Hedging Program

During the second quarter of 2017, we implemented a cash flow hedging program. The purpose of our hedging program is to manage the foreign currency exchange rate risk on forecasted expenses denominated in currencies other than the functional currency of the operating unit. We do not issue derivatives for trading or speculative purposes.

In May 2017, we entered into a two-year cross-currency par forward contract to hedge a portion of our Mexico forecasted expenses denominated in Pesos ("MXN"). To receive hedge accounting treatment, all hedging relationships are formally documented at the inception of the hedge, and the hedges must be highly effective in offsetting changes to future cash flows on hedged transactions. The par forward contract is designated and qualifies as a cash flow hedge. Our derivative instrument is recorded at fair value on the Consolidated Balance Sheets and is classified based on the instrument's maturity date. We record changes in the fair value of the effective portion of the derivative instrument as a component of Other Comprehensive (Loss) Income and we reclassify that gain or loss into earnings in the same line item associated with the forecasted transaction and in the same period during which the hedged transaction affects earnings. The total notional amount of our outstanding derivative as of December 31, 2018 was approximately 150.1 million MXN. The term of our currency forward contract is May 1, 2017 to May 1, 2019. The derivative instrument matures in equal monthly amounts at a fixed forward rate of 20.01MXN/USD over the term of the two-year contract.

In January 2018, we entered into an additional six-month cross-currency par forward contract that extends our current hedge of a portion of our Mexico forecasted expenses denominated in MXN. The total notional amount of this outstanding derivative as of December 31, 2018 was approximately 183.9 million MXN. The term of the six-month contract is May 1, 2019 to November 1, 2019. The derivative instrument matures in equal monthly amounts at a fixed forward rate of 20.43 MXN/USD over the term of the six-month contract.

In November 2018, we entered into a one-year cross-currency par forward contract again extending the hedge of a portion of our Mexico forecasted expenses denominated in MXN. The total notional amount of this outstanding derivative as of December 31, 2018 was approximately 398.0 million MXN. The term of the one-year hedge is November 1, 2019 to November 3, 2020. The derivative instrument matures in equal monthly amounts at a fixed forward rate of 22.109 MXN/USD.

The following table presents the fair values of our derivative instruments included within the Consolidated Balance Sheets (in thousands):

	Derivatives						
	Consolidated Balance Sheet D Location				ecember 31, 2017		
Derivatives designated as cash flow hedging instruments							
Foreign exchange forward contract:	Prepaid expenses and other current assets	\$	187	\$	_		
	Other assets		545		_		
	Accrued liabilities		_		187		
	Other long-term liabilities		_		402		
Total derivatives designated as cash flow hedging instruments		\$	732	\$	589		

The following table presents the amounts affecting the Consolidated Statements of Operations (in thousands):

	Line Item in the Consolidated Statements of Operations	 ear Ended cember 31, 2018	Year Ended ecember 31, 2017
Derivatives designated as cash flow hedging instruments			
Foreign exchange forward contracts	Cost of goods sold	\$ 743	\$ 885

We recognized the following gains on our foreign exchange contract designated as a cash flow hedge (in thousands):

Recogniz Othe Compreh Income	ed in er ensive e on	Recog O Compi Inco	nized in ther rehensive ome on					
Decembe	er 31,	Year Ended December 31, 2017		_		Year Ended December 31, 2018		ar Ended ember 31, 2017
\$	2,063	\$	296	Cost of goods sold	\$	743	\$	885
\$	2,063	\$	296		\$	743	\$	885
	Recogniz Othe Compreh Income Derivat  Year En		Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31,  Recog Comprehensive Income on Derivatives  Vear Ended December 31,	Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31, 2017  \$ 2,063 \$ 296	Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31, 2018  \$\begin{array}{cccccccccccccccccccccccccccccccccccc	Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31, 2018  \$\begin{array}{cccccccccccccccccccccccccccccccccccc	Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31, 2018  \$\begin{array}{cccccccccccccccccccccccccccccccccccc	Recognized in Other Comprehensive Income on Derivatives  Year Ended December 31, 2018  Personal Second Seco

As of December 31, 2018, we expect approximately \$0.2 million of the deferred gain on the outstanding derivatives in accumulated other comprehensive income to be reclassified to net income during the next 12 months concurrent with the underlying hedged transactions also being reported in net income.

#### NOTE 8. FAIR VALUE MEASUREMENTS

Fair value is the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is estimated by applying the following hierarchy, which prioritizes the inputs used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:

- Level 1: quoted prices in active markets for identical assets or liabilities;
- Level 2: inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices in active markets for similar assets or liabilities, quoted prices for identical or similar assets or liabilities in markets that are not active or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; or
- Level 3: unobservable inputs that are supported by little or no market activity and that are significant to the fair values
  of the assets or liabilities.

During the first quarter of 2017, we recognized an earn-out liability upon the acquisition of HIS from Pfizer. Pfizer may be entitled up to \$225 million in cash if certain performance targets for the combined company for the three years ending December 31, 2019 are achieved. The initial fair value of the earn-out was determined by employing a Monte Carlo simulation in a risk neutral framework. The underlying simulated variable was adjusted EBITDA. The adjusted EBITDA volatility estimate was based on a study of historical asset volatility for a set of comparable public companies. The model includes other assumptions including the market price of risk, which was calculated as the weighted average cost of capital ("WACC") less the long term risk free rate. The initial value assigned to the contingent consideration was a result of forecasted product demand of our HIS business, as discussed further in Note 2: Acquisition, Strategic Transaction and Integration Expenses. At each reporting date subsequent to the acquisition we remeasure the earn-out using the same methodology above and recognize any changes in value. If the probability of achieving the performance target significantly changes from what we initially anticipated, the change could have a significant impact on our financial statements in the period recognized. Our contingent earn-out liability is separately stated in our consolidated balance sheets.

The following table provides a reconciliation of the Level 3 earn-out liability measured at estimated fair value based on an initial valuation and updated quarterly for the years ended December 31, 2018 and 2017 (in thousands):

	Earn-	out Liability
Contingent earn-out liability, January 1, 2017	\$	_
Acquisition date fair value estimate of earn-out		19,000
Change in fair value of contingent earn-out (included in income from operations as a separate line item)		8,000
Contingent earn-out liability, December 31, 2017	•	27,000
Change in fair value of contingent earn-out (included in income from operations as a separate line item)		20,400
Contingent earn-out liability, December 31, 2018	\$	47,400

Changes in the fair value of the earn-out subsequent to the fair value calculated at acquisition are due to a change in the forecast of the underlying target, adjusted EBITDA, and due to changes in other assumptions used in the Monte Carlo simulation, as detailed in the below table.

The following table provides quantitative information about Level 3 inputs for fair value measurement of our earn-out liability as of the acquisition date to December 31, 2018. Significant increases or decreases in these inputs in isolation could result in a significant impact on our fair value measurement:

Simulation Input	As of December 31, 2018	As of December 31, 2017	At Acquisition February 3, 2017
Adjusted EBITDA Volatility	30.00%	26.00%	29.00%
WACC	8.25%	8.75%	10.00%
20-year risk free rate	2.87%	2.58%	2.82%
Market price of risk	5.24%	5.99%	6.93%
Cost of debt	5.25%	4.08%	4.16%

The fair value of our investments, which consists of corporate bonds, is estimated using observable market based inputs such as quoted prices, interest rates and yield curves or Level 2 inputs.

The fair value of our Level 2 forward currency contract is estimated using observable market inputs such as known notional value amounts, spot and forward exchange rates. These inputs relate to liquid, heavily traded currencies with active markets which are available for the full term of the derivative.

The assets related to our Dominican Republic manufacturing facilities were classified as assets held-for-sale as of December 31, 2017. These assets are separately stated in our 2017 consolidated balance sheet. The fair value of these Level 3 assets was determined as part of the HIS business valuation and was based on a market approach using comparable building and land sales data and the analysis of market conditions. We sold these assets during 2018.

There were no transfers between levels in 2018 or 2017.

Our assets and liabilities measured at fair value on a recurring basis consisted of the following (Level 1, 2 and 3 inputs as defined above) (in thousands):

	Fair value measurements at December 31, 2018							
	Total carrying value		Quoted prices in active markets for identical assets (level 1)		Significant other observable inputs (level 2)		unc	gnificant bservable its (level 3)
Assets:								
Available for sale securities:								
Short-term	\$	37,329	\$	_	\$	37,329	\$	_
Long-term		2,025		_		2,025		_
Foreign exchange forwards:								
Prepaid expenses and other current assets		187		_		187		_
Other assets		545		_		545		_
Total Assets	\$	40,086	\$		\$	40,086	\$	
	-							
Liabilities:								
Earn-out liability	\$	47,400	\$	_	\$	_	\$	47,400
Total Liabilities	\$	47,400	\$	_	\$	_	\$	47,400
	Tot	Fair al carrying value	Quote in mar ide	ed prices active kets for entical ( (level 1)	other observable		Si	gnificant bservable ts (level 3)
Assets:								
Available for sale securities:								
Short-term	\$	10,061	\$	_	\$	10,061	\$	_
Long-term		14,579		_		14,579		_
Total Assets	\$	24,640	\$		\$	24,640	\$	
Liabilities:								
Earn-out liability	\$	27,000	\$	_	\$	_	\$	27,000
Earn-out liability Foreign exchange forwards:	\$	27,000	\$	_	\$	-	\$	27,000
•	\$	27,000 187	\$	_ _	\$	— 187	\$	27,000
Foreign exchange forwards:	\$		\$	_ 	\$	— 187 402	\$	27,000
Foreign exchange forwards: Accrued liabilities	\$	187		_ 	\$			27,000 — — 27,000

Our assets measured at fair value on a nonrecurring basis consisted of the following (Level 1, 2 and 3 inputs as defined above (in thousands):

	Fair value measurements at December 31, 2017								
	Total carrying value  Quoted prices in active markets for identical assets (level 1)			ificant her rvable (level 2)	Significant unobservable inputs (level 3)				
Assets:									
Assets held-for-sale	\$ 12,489	\$ _	- \$	_	\$	12,489			
Total Assets	\$ 12,489	\$ -	- \$		\$	12,489			

#### NOTE 9. PREPAID EXPENSES, OTHER CURRENT ASSETS AND RELATED-PARTY RECEIVABLE

Prepaid expenses and other current assets consist of the following (in thousands):

	Dec	December 31, 2018		ember 31, 2017
Deposits	\$	1,087	\$	21,940
Other prepaid expenses and receivables		12,476		4,208
Deferred costs		1,951		1,301
Prepaid insurance and property taxes		2,666		2,580
VAT/GST receivable		5,072		8,097
Deferred tax charge		1,180		1,326
Other		1,548		1,834
	\$	25,980	\$	41,286

Related-party receivables consist of the following (in thousands):

	Dec	ember 31, 2018	Dec	ember 31, 2017
Third-party receivables due from Pfizer	\$	4,904	\$	36,425
HIS business acquisition related		15,233		62,382
	\$	20,137	\$	98,807

Third-party receivables due from Pfizer relates to trade accounts receivable that have already been collected from customers by Pfizer on our behalf. HIS business acquisition related receivables include amounts due from Pfizer related to the manufacturing and supply agreements and deferred close entities and amounts we prepaid to Pfizer for operational expenses under the transition services agreement.

Pfizer became a related party to us when we issued 3.2 million shares of our common stock as partial consideration for the acquisition of HIS. As of December 31, 2018, Pfizer has sold all of its shares of our common stock. In connection with the sale of 2.5 million of the shares Pfizer held, we incurred a one-time fee payable to Pfizer in the amount of \$8.0 million included in restructuring, strategic transaction and integration expense in our consolidated statement of operations.

On February 3, 2017, we entered into a transitional services agreement and two Manufacturing and Supply Agreements ("MSA's") with Pfizer, (see Note 16, Collaborative and Other Arrangements). During 2018, the revenue for goods manufactured for Pfizer was \$78.2 million and the cost of product manufactured by Pfizer for us was \$81.0 million. During 2017, the revenue for goods manufactured for Pfizer was \$72.4 million and the cost of product manufactured by Pfizer for us was \$70.2 million.

#### NOTE 10. ACCRUED LIABILITIES AND OTHER LONG-TERM LIABILITIES

Accrued liabilities consist of the following (in thousands):

	 December 31,			
	2018		2017	
Salaries and benefits	\$ 20,538	\$	20,745	
Incentive compensation	42,913		40,682	
Accrued professional fees	15,996		13,319	
Accrued product field action	5,316		11,810	
Consigned inventory	1,118		5,210	
Third-party inventory	1,089		4,284	
Legal accrual	1,400		3,538	
Accrued sales taxes	2,941		6,291	
Warranties and Returns	1,124		3,360	
Deferred revenue	3,814		3,326	
Accrued other taxes	3,213		2,771	
Distribution fees	3,977		725	
Accrued freight	10,953		5,696	
Restructuring accrual	1,046		1,290	
Contract settlement	2,083		_	
Accrued research and development	1,451		_	
Other	9,848		9,017	
	\$ 128,820	\$	132,064	

Other long-term liabilities consist of the following (in thousands):

	 December 31,				
	2018	2017			
Contract liabilities <sup>(1)</sup>	\$ 14,020	\$	40,148		
Deferred revenue	468		7,099		
Benefits	962		2,104		
Accrued rent	1,779		_		
Contract settlement	1,667		_		
Other	1,696		5,975		
	\$ 20,592	\$	55,326		

<sup>&</sup>lt;sup>(1)</sup> Consists of multiple contracts with customers and suppliers that were valued at below market at the time of the HIS acquisition. During 2018, the decrease to contract liabilities was primarily due to the resolution and settlement of a dispute with a product partner.

#### NOTE 11. LONG-TERM OBLIGATIONS

Five-year Revolving Credit Facility ("Credit Facility")

On November 8, 2017, we entered into a five-year Revolving Credit Facility ("Credit Facility") with various lenders for \$150 million, with Wells Fargo Bank, N.A. as the administrative agent, swingline lender and issuing lender. As of December 31, 2018, we had no borrowings and \$150 million of availability under the Credit Facility. The Credit Facility matures on November 8, 2022.

The Credit Facility has an accordion feature that would enable us to increase the borrowing capacity of the Credit Facility by the greater of (i) \$100 million and (ii) 2.00x Total Leverage.

In connection with the Credit Facility, for the year ended December 31, 2017, we incurred \$1.4 million in financing costs, which were capitalized and are included in prepaid expenses and other current assets and other assets in our consolidated balance sheets, in accordance with the appropriate short-term or long-term classification. These fees are being amortized to interest expense over the remaining term of the Credit Facility.

Principal payments

Principal payments, when drawn on the Credit Facility, are made at our discretion with the entire unpaid amount due at maturity.

Interest rate

In general, borrowing under the Credit Facility (other than Swingline loans) bears interest, at our option, based on the Base Rate plus applicable margin or the London Interbank Offered Rate ("LIBOR") rate plus applicable margin, as defined below:

- (A) Base Rate is defined as the highest of: (a) the Prime Rate; (b) the Federal Funds Rate plus 0.50%; and (c) the daily LIBOR (as defined below) for a one month Interest Period plus 1%.
- (B) LIBOR Rate, as determined by the Administrative Agent, is defined as the rate per annum obtained by dividing (1) LIBOR by (2) 1.00 Eurodollar Reserve Percentage.

Swingline loans will bear interest at the Base Rate plus the applicable Interest Margin. The Credit Facility has a per annum commitment fee (see table below) that will accrue on the unused amounts of the commitments under the Credit Facility.

The applicable interest margins and the commitment fee with respect to the Credit Facility shall be based on the Total Leverage Ratio pursuant to the following pricing grid:

Level	Consolidated Total Leverage Ratio	Commitment Fee	LIBOR +	Base Rate
I	Less than 1.00 to 1.00	0.15%	1.25%	0.25%
II	Greater than or equal to 1.00 to 1.00 but less than 2.00 to 1.00	0.20%	1.50%	0.50%
III	Greater than or equal to 2.00 to 1.00 but less than 2.50 to 1.00	0.25%	1.75%	0.75%
IV	Greater than or equal to 2.50 to 1.00	0.30%	2.00%	1.00%

#### Guarantors and Collateral

Our obligations under the Credit Facility are unconditionally guaranteed, on a joint and several basis, by ICU Medical, Inc. and certain of our existing subsidiaries. Our obligations are secured by: (i) 100% of the equity interests of our guarantor subsidiaries; and (ii) all of the tangible and intangible personal property and assets related to us and our guarantor subsidiaries (including, without limitation, all accounts, equipment, inventory and other goods, all instruments, intellectual property and other general intangibles, deposit accounts, securities accounts and other investment property and cash), and (iii) all products, profits and proceeds of the foregoing. Notwithstanding the foregoing, the collateral shall not include certain excluded property.

#### Debt Covenants

The Credit Facility contains certain financial covenants pertaining to Consolidated Fixed Charge Coverage and Consolidated Total Leverage Ratios. In addition, the Credit Facility has restrictions pertaining to limitations on debt, liens, negative pledges, loans, advances, acquisitions, other investments, dividends, distributions, redemptions, repurchases of equity interests, fundamental changes and asset sales and other dispositions, prepayments, redemptions and purchases of subordinated debt and other junior debt, transactions with affiliates, dividend and payment restrictions affecting subsidiaries, changes in line of business, fiscal year and accounting practices and amendment of organizational documents and junior debt documents.

The Consolidated Leverage Ratio is defined as the ratio of Consolidated Total Funded Indebtedness on such date, to Consolidated Adjusted EBITDA, as defined under the Credit Facility Agreement, for the most recently completed four fiscal quarters. The maximum Consolidated Leverage Ratio is not more than 3.00 to 1.00.

The Consolidated Fixed Charge Coverage Ratio is defined as the ratio of: (a) Consolidated Adjusted EBITDA less the sum of (i) capital expenditures, (ii) federal, state, local and foreign income taxes paid in cash and (iii) cash restricted payments made after the closing date, to (b) Consolidated Fixed Charges for the most recently completed four fiscal quarters, calculated on a pro forma basis. The minimum Consolidated Fixed Charge Coverage Ratio is 2.00 to 1.00.

We were in compliance with all financial covenants as of December 31, 2018.

Three-Year Interest-Only Senior Note

On February 3, 2017, we partially funded the acquisition of the HIS business from Pfizer with a \$75 million Seller Note issued by Pfizer contemporaneous with the acquisition. We had fully repaid the seller note as of December 31, 2017.

#### **NOTE 12. INCOME TAXES**

Income from continuing operations before taxes consisted of the following (in thousands):

		Year Ended December 31,						
	2018		2017	2016				
United States	\$ (8,6	00) \$	59,872	\$	80,714			
Foreign	30,9	74	(8,589)		4,450			
	\$ 22,3	74 \$	51,283	\$	85,164			

The (benefit) provision for income taxes consisted of the following (in thousands):

			Year Ended December 31,					
			2018 2017				2016	
Current:								
	Federal	\$	492	\$	2,774	\$	21,123	
	State		1,865		2,263		2,347	
	Foreign		9,136		3,170		1,118	
			11,493		8,207		24,588	
Deferred:								
	Federal	\$	(9,118)	\$	(20,878)	\$	(2,045)	
	State		(3,072)		(4,619)		(767)	
	Foreign		(5,722)		(71)		304	
			(17,912)		(25,568)		(2,508)	
		\$	(6,419)	\$	(17,361)	\$	22,080	
				_				

We have accrued for tax contingencies for potential tax assessments, and in 2018 we recognized a \$4.3 million net increase, most of which related to various federal and state tax reserves.

On December 22, 2017, the Tax Act was enacted into legislation, which includes a broad range of provisions affecting businesses. The Tax Act significantly revises how companies compute their U.S. corporate tax liability by, among other provisions, reducing the corporate tax rate from 35% to 21% for tax years beginning after December 31, 2017, implementing a territorial tax system, and requiring a mandatory one-time tax on U.S. owned undistributed foreign earnings and profits known as the toll charge or transition tax.

Pursuant to the SEC Staff Accounting Bulletin ("SAB") No. 118, "Income Tax Accounting Implications of the Tax Cuts and Jobs Act" ("SAB 118"), a company selects between one of three scenarios to reflect the impact of the Tax Act in its financial statements within a measurement period. Those scenarios are (i) a final estimate which effectively closes the measurement period; (ii) a reasonable estimate leaving the measurement period open for future revisions; and (iii) no estimate as the law is still being analyzed in which case a company continues to apply its accounting on the basis of the provisions of the tax laws that were in effect immediately before the enactment of the Tax Act. SAB 118 allows for the reporting provisional amounts for certain income tax effects in scenario (ii) and (iii). The measurement period begins in the reporting period that includes the Act's enactment date and ends when an entity has obtained, prepared, and analyzed the information that was needed in order to complete the accounting requirements under ASC Topic 740. As of December 31, 2018, our accounting for the Tax Act is complete.

The toll charge on undistributed foreign earnings and profits (the "Transition Tax") is a tax on certain untaxed accumulated and current earnings and profits ("E&P") of our foreign subsidiaries. We were able to reasonably estimate the Transition Tax and recorded a provisional Transition Tax expense of \$2.0 million for the year ended December 31, 2017. On the basis of revised E&P computations that were completed during the reporting period, we recognized an additional measurement-period adjustment of \$0.6 million to the Transition Tax obligation, with a corresponding adjustment of \$0.6 million to income tax expense.

The revaluation of deferred taxes is an adjustment to future tax obligations as a result of the reduction of the corporate tax rate from 35% to 21%. We were able to reasonably estimate the effect of the revaluation of deferred taxes and recorded a provisional tax expense of \$1.1 million for the year ended December 31, 2017. The computation of timing differences was completed during the reporting period. We recognized an additional measurement-period adjustment of \$0.2 million, with a corresponding adjustment of \$0.2 million to income tax expense.

We continue to evaluate various international provisions included in the Tax Act due to the lack of final Treasury Regulations and ongoing guidance. These provisions include, but are not limited to, the anti-base-erosion and anti-abuse tax regime (BEAT), the global intangible low-taxed income (GILTI) provisions, the foreign derived intangible income (FDII) provisions, and the changes to the deductibility of interest. These provisions were effective for us beginning on January 1, 2018, and may materially impact our effective tax rate in future years. We elected to treat the GILTI as period costs when incurred, and for the year ended December 31, 2018, we recorded an income tax expense of \$2.4 million for GILTI.

A reconciliation of the provision for income taxes at the statutory rate to our effective tax rate is as follows (dollars in thousands):

	Year Ended December 31,									
		2018			2017			2016	1	
		Amount	Percent		Amount	Percent		Amount	Percent	
Federal tax at the expected statutory rate	\$	4,699	21.0 %	\$	17,950	35.0 %	\$	29,807	35.0 %	
State income tax, net of federal effect		927	4.1 %		(403)	(0.8)%		1,795	2.1 %	
Tax credits		(4,961)	(22.2)%		(2,783)	(5.4)%		(1,014)	(1.2)%	
Global intangible low-taxed income		2,363	10.6 %		_	— %			— %	
Foreign income tax differential		(2,944)	(13.2)%		3,481	6.8 %		(135)	(0.1)%	
Stock based compensation		(11,040)	(49.3)%		(18,958)	(37.0)%		(7,720)	(9.1)%	
Impact of the Tax Act		826	3.7 %		3,076	6.0 %		_	— %	
IP installment sale		3,252	14.5 %		3,367	6.6 %		_	— %	
Bargain purchase gain		_	<b>—</b> %		(24,811)	(48.4)%			— %	
Section 162(m)		456	2.0 %		595	1.2 %		1,133	1.3 %	
Other		3	0.1 %		1,125	2.2 %		(1,786)	(2.1)%	
	\$	(6,419)	(28.7)%	\$	(17,361)	(33.8)%	\$	22,080	25.9 %	

Tax credits in 2018, 2017 and 2016 consist principally of research and developmental tax credits.

The tax effect of the gain on bargain purchase is treated as a discrete item part of purchase accounting and is not a component of the income tax provision.

The components of our deferred income tax assets (liabilities) are as follows (in thousands):

	December 31,			
	 2018		2017	
Deferred tax asset:				
Accruals/other	11,291		956	
Contingent consideration	12,451		7,412	
Net operating loss carryforwards	12,686		_	
Acquired future tax deductions	10,722		10,580	
Stock-based compensation	10,775		8,633	
Foreign currency translation adjustments	3,108		3,425	
Tax credits	14,470		11,220	
Inventory reserves	5,674		10,658	
Allowance for doubtful accounts	830		636	
Valuation allowance	(5,436)		(7,385)	
	\$ 76,571	\$	46,135	
Deferred tax liability:				
State income taxes	\$ 2,639	\$	1,640	
Foreign	612		202	
Depreciation and amortization	35,387		21,005	
	\$ 38,638	\$	22,847	
Deferred tax asset, net	\$ 37,933	\$	23,288	

#### Tax Holidays and Carryforwards

Net operating loss ("NOL") carryforwards consist of: (a) federal NOL carryforwards of \$68.9 million which will expire at various dates from 2020 to indefinite carryforward periods, (b) state NOL carryforwards of \$20.2 million which will expire at various dates from 2028 to indifinite carryforward periods, and (c) foreign NOL carryforwards of \$21.4 million which will expire at various dates from 2019 to indefinite carryforward periods. Under Section 382 of the Internal Revenue Code, certain ownership changes limit the utilization of the NOL carryforwards, and the amount of federal NOL carryforwards recorded is the net federal benefit available.

Other carryforwards include research and development ("R&D"), federal and state tax credit carryforwards of \$7.4 million and \$13.6 million, respectively.

A substantial portion of our manufacturing operations in Costa Rica operate under various tax holidays and tax incentive programs which will expire in whole or in part in 2027. Certain of the holidays may be extended if specific conditions are met. The net impact of these tax holidays and tax incentives was an increase to our net earnings by \$8.8 million or \$0.41 per diluted share in 2018.

Foreign currency translation adjustments, and related tax effects, are an element of "other comprehensive income" and are not included in net income other than the revaluation of the associated deferred tax asset due to the Tax Act.

As of December 31, 2018, we have estimated \$20.8 million of undistributed foreign earnings and profits. We have not provided deferred tax liabilities for foreign withholding taxes and certain state income taxes on the undistributed earnings and profits from certain non-U.S. subsidiaries that will be permanently reinvested outside the United States.

Upon the distribution of foreign earnings and profits, certain foreign countries impose withholding taxes. If the foreign earnings and profits were distributed, we would need to accrue an additional income tax liability. However, we may also be allowed a credit against our U.S. tax liability for substantially all the taxes paid in foreign jurisdictions.

We are subject to taxation in the United States and various states and foreign jurisdictions. Our United States federal income tax returns for tax years 2015 and forward are subject to examination by the Internal Revenue Service. Our principal state income tax returns for tax years 2013 and forward are subject to examination by the state tax authorities. The total gross amount of unrecognized tax benefits as of December 31, 2018 was \$10.8 million which, if recognized, would impact the effective tax rate. We believe that adequate provision has been made for any adjustments that may result from tax examinations. However, the outcome of tax examinations cannot be predicted with certainty. As of December 31, 2018, it is not possible to estimate the amount of change, if any, in the unrecognized tax benefits that is reasonably possible within the next twelve months. We recognize accrued interest and penalties related to unrecognized tax benefits as a component of income tax expense. We have not accrued any penalties or interest as of December 31, 2018 or December 31, 2017.

The following table summarizes our cumulative gross unrecognized tax benefits (in thousands):

	Year Ended December 31,						
		2018				2016	
Beginning balance	\$	6,527	\$	2,000	\$	1,772	
Increases to prior year tax positions		_		77		77	
Increases due to acquisitions		_		640		_	
Increases to current year tax positions		4,536		3,992		345	
Decreases to prior year tax positions		(146)		(12)		(46)	
Decrease related to lapse of statute of limitations		(93)		(170)		(148)	
Ending balance	\$	10,824	\$	6,527	\$	2,000	
			_				

#### NOTE 13. GEOGRAPHIC INFORMATION AND SIGNIFICANT CUSTOMERS

#### Significant Customers

We sell products worldwide, on credit terms on an unsecured basis, as an OEM supplier, to independent medical supply distributors and directly to the end customer. The manufacturers and distributors, in turn, sell our products to healthcare providers. For the year ended December 31, 2016, we had worldwide sales to one manufacturer, Pfizer, of 30% of consolidated revenue and as of December 31, 2016, accounts receivable from Pfizer was 23% of consolidated accounts receivable. In February 2017, we completed the acquisition of Pfizer's HIS business, which eliminated the significant earnings exposure indicated above (see Note 2: Acquisitions and Strategic Transaction Expenses).

#### Geographic Information

The table below presents our gross long-lived assets, consisting of property, plant and equipment, by country or region (in thousands):

	As of Dec	emb	er 31,
	2018		2017
Costa Rica	\$ 81,920	\$	80,956
Mexico	64,242		61,008
Other LATAM	22,828		19,432
Canada	4,545		4,362
Italy	7,819		6,860
Spain	6,516		5,601
Other Europe	2,427		2,625
APAC	15,152		5,169
Total Foreign	\$ 205,449	\$	186,013
United States	489,415		422,810
Worldwide Total	\$ 694,864	\$	608,823

#### NOTE 14. STOCKHOLDERS' EQUITY

Treasury Stock

In July 2010, our Board of Directors approved a common stock purchase plan to purchase up to \$40.0 million of our common stock. This plan has no expiration date and we have \$7.2 million remaining on this purchase plan. During 2016, we purchased \$15.4 million of our common stock. We did not purchase any of our common stock under our purchase plan in 2018 or 2017. We used the treasury stock to issue shares for stock option exercises, restricted stock grants and employee stock purchase plan stock purchases. We are currently limited on share purchases in accordance with the terms and conditions of our Credit Facility, (see Note 11: Long-Term Obligations).

In 2018, we withheld 26,307 shares of our common stock from employee vested restricted stock units in consideration for \$6.3 million in payments for the employee's share award income tax withholding obligations. We have 408 shares remaining in treasury at December 31, 2018.

In 2017, we withheld 27,636 shares of our common stock from employee vested restricted stock units in consideration for \$4.1 million in payments for the employee's share award income tax withholding obligations. We had no shares remaining in treasury at December 31, 2017.

Accumulated Other Comprehensive Income (Loss)

The components of AOCI, net of tax, were as follows (in thousands):

	Foreign Currency Translation Adjustments	G	Unrealized ains on Cash Flow Hedges	A	Other Adjustments	Total
Balance as of January 1, 2017	\$ (21,272)	\$		\$	_	\$ (21,272)
Other comprehensive income (loss) before reclassifications	6,694		184		(16)	6,862
Amounts reclassified from AOCI	_		(549)		_	(549)
Other comprehensive income (loss)	6,694		(365)		(16)	6,313
Balance as of December 31, 2017	\$ (14,578)	\$	(365)	\$	(16)	\$ (14,959)
Other comprehensive (loss) income before reclassifications	(3,104)		1,568		115	(1,421)
Amounts reclassified from AOCI	_		(565)		_	(565)
Other comprehensive (loss) income	(3,104)		1,003		115	(1,986)
Balance as of December 31, 2018	\$ (17,682)	\$	638	\$	99	\$ (16,945)

#### NOTE 15. COMMITMENTS AND CONTINGENCIES

Lease Commitments

We have entered into various non-cancellable operating lease agreements for offices and facilities, passenger vehicles, and IT services throughout the world with original lease periods expiring primarily between 2019 and 2030 and remaining lease terms of 1 to 11 years. Some of these agreements have escalating rent payment provisions, as well as options to extend the lease for up to 5 years.

We recognize rent expense under such agreements on a straight-line basis. Our rent expense under operating leases was \$11.0 million in 2018, \$7.9 million in 2017 and \$0.6 million in 2016.

As of December 31, 2018, undiscounted future minimum lease payments under our non-cancelable operating leases are as follows over each of the next five years and thereafter (in millions):

2019	\$ 8.3
2020	8.6
2021	6.5
2022	5.9
2023	5.6
Thereafter	13.2
Total	\$ 48.1

The weighted-average lease term for the operating lease liabilities is approximately 6.3 years.

#### Legal Proceedings

Beginning in November 2016, purported class actions were filed in the U.S. District Court for the Northern District of Illinois against Pfizer, Inc. subsidiaries, Hospira, Inc., Hospira Worldwide, Inc. and certain other defendants relating to the intravenous saline solutions part of the HIS business. Plaintiffs seek to represent classes consisting of all persons and entities in the U.S. who directly purchased intravenous saline solution sold by any of the defendants from January 1, 2013 until the time the defendants' allegedly unlawful conduct ceases. Plaintiffs allege that U.S. manufacturer defendants conspired together to restrict output and artificially fix, raise, maintain and/or stabilize the prices of intravenous saline solution sold throughout the U.S. in violation of federal antitrust laws. Plaintiffs seek treble damages (for themselves and on behalf of the putative classes) and an injunction against defendants for alleged price overcharges for intravenous saline solution in the U.S. since January 1, 2013. On July 5, 2018, the District Court granted defendants' motion to dismiss the operative complaint for failing to state a valid antitrust claim, but allowed the plaintiffs to file a second amended complaint. On September 6, 2018, plaintiffs filed a second amended complaint adding new allegations in support of their conspiracy claims and adding ICU as a defendant. All defendants have filed a motion to dismiss this second amended complaint. On February 3, 2017, we completed the acquisition of the HIS business from Pfizer. This litigation is the subject of a claim for indemnification against us by Pfizer and a crosscalam for indemnification against Pfizer by us under the HIS stock and asset purchase agreement ("SAPA").

In addition, in August 2015, the New York Attorney General issued a subpoena to Hospira, Inc. requesting that the company provide information regarding certain business practices in the intravenous solutions part of the HIS business. Separately, in April 2017, we received a grand jury subpoena issued by the United States District Court for the Eastern District of Pennsylvania, in connection with an investigation by the U.S. Department of Justice, Antitrust Division. The subpoena calls for production of documents related to the manufacturing, selling, pricing and shortages of intravenous solutions, including saline, as well as communications among market participants regarding these issues. On December 10, 2018, we were informed by the U.S. Department of Justice, Antitrust Division, that their investigation has been closed.

In April 2018, the U.S. Department of Justice issued a HIPAA subpoena to Hospira, Inc., requesting production of documents and records regarding the manufacturing, production, testing, quality and validation of the Sapphire<sup>TM</sup> infusion pumps, sets and related accessories distributed by the Company. We are coordinating with Pfizer to produce the requested records to the Department of Justice.

In March 2018, a dispute with a product partner resulted in a redefinition of our contractual arrangement and in the rights and remedies determined under such arrangement. The resolution of the dispute resulted in a \$28.9 million net charge to the consolidated statement of operations. During the fourth quarter of 2018, we incurred \$12.7 million in additional contract settlement charges related to this arrangement as a result of the write-off of assets and additional expenses associated with the restructuring of products.

From time to time, we are involved in various legal proceedings, most of which are routine litigation, in the normal course of business. Our management does not believe that the resolution of the unsettled legal proceedings that we are involved with will have a material adverse impact on our financial position or results of operations.

#### Off Balance Sheet Arrangements

In the normal course of business, we have agreed to indemnify our officers and directors to the maximum extent permitted under Delaware law and to indemnify customers as to certain intellectual property matters related to sales of our products. There is no maximum limit on the indemnification that may be required under these agreements. We have never incurred, nor do we expect to incur, any liability for indemnification.

#### Contingencies

We have a contractual earn-out arrangement in connection with our acquisition of the HIS business, whereby Pfizer may be entitled up to an additional \$225 million in cash upon achievement of performance targets for the company for the three years ending December 31, 2019, see (Note 2: Acquisitions and Strategic Transaction Expenses). The amount to be paid cannot be determined until the earn-out period has expired.

#### NOTE 16. COLLABORATIVE AND OTHER ARRANGEMENTS

On February 3, 2017, we entered into two MSA's, (i) whereby Pfizer will manufacture and supply us with certain agreed upon products for an initial five-year term with a one-time two-year option to extend and (ii) whereby we will manufacture and supply Pfizer certain agreed upon products for a term of five or ten years depending on the product, also with a one-time two-year option to extend. The MSA's provide each party with mutually beneficial interests and both of the MSA's are to be jointly managed by both Pfizer and ICU. The initial supply price, which will be annually updated, is in full consideration for all costs associated with the manufacture, documentation, packaging and certification of the products.

On February 3, 2017, as part of the HIS business acquisition, we entered into an agreement with Pfizer, whereby Pfizer will provide certain transitional services to us for finance, business technology, regulatory, human resources, global operations, procurement, quality and global commercial operation services ("Enabling Function Services"). We pay a monthly service fee for each service provided, and share equally with Pfizer in certain set-up costs and, as applicable, service exit costs. Our share of the set-up costs and service exit costs, in the aggregate, are not to exceed \$22.0 million. The service fees are subject to a fee cap of (i) \$62.5 million during the initial twelve month period and (ii) \$31.3 million during the subsequent six month period. Only the Enabling Function Services are subject to the fee cap, any services provided after expiration of the agreement or services that are not Enabling Function Services may result in service fees outside the fee cap. The service fees are intended to reasonably approximate Pfizer's cost of providing the Enabling Function Services. We may terminate, in whole only, any particular service and the fee cap would be reduced proportionate to the services terminated. Partial reduction in the provision of any specific service may be made but only with the prior written consent of Pfizer.

On February 3, 2017, as part of the HIS business acquisition, we also entered into a reverse transitional services agreement, where we will provide to Pfizer certain transitional services ranging in term from three to eighteen months. Services include support for real estate, research and development, infrastructure, logistics, quality, site operations, safety, commercial and finance, and regulatory support services.

NOTE 17. SELECTED QUARTERLY FINANCIAL DATA - UNAUDITED

	Quarter Ended						
	 Mar. 31		Jun. 30		Sept. 30		Dec. 31
	(in thousands except per share data)						
2018							
Total revenue	\$ 372,033	\$	360,460	\$	327,169	\$	340,378
Gross profit	\$ 149,001	\$	151,800	\$	134,587	\$	134,640
Net income (loss)	\$ 4,875	\$	31,054	\$	219	\$	(7,355)
Net income (loss) per share:							
Basic	\$ 0.24	\$	1.53	\$	0.01	\$	(0.36)
Diluted	\$ 0.23	\$	1.44	\$	0.01	\$	(0.36)
<u>2017</u>							
Total revenue	\$ 247,739	\$	331,514	\$	343,236	\$	370,124
Gross profit	\$ 88,945	\$	88,062	\$	111,598	\$	137,490
Net income (loss)	\$ 55,863	\$	(37,060)	\$	136	\$	49,705
Net income (loss) per share:							
Basic	\$ 3.03	\$	(1.87)	\$	0.01	\$	2.47
Diluted	\$ 2.86	\$	(1.87)	\$	0.01	\$	2.33

On February 3, 2017, we acquired HIS, see Note 2, Acquisitions, Strategic Transaction and Integration Costs.

Net loss for the quarter ended December 31, 2018 included the impact of \$41.1 million in restructuring, strategic transaction and integration expenses. We also incurred an \$8.6 million non-cash charge in the quarter ended December 31, 2018 associated with a contract settlement that took place in the quarter ended March 31, 2018, which is included in contract settlement. Management of the Company concluded the contract settlement charge is not material to the three months ended December 31, 2018, or to any previously issued interim financial statements.

# ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

#### ITEM 9A. CONTROLS AND PROCEDURES

#### Disclosure Controls and Procedures

Our principal executive officer and principal financial officer have concluded, based on their evaluation of our disclosure controls and procedures (as defined in Regulations 13a-15(e) and 15(d)-15(e) under the Securities Exchange Act of 1934) as of the end of the period covered by this Report, that our disclosure controls and procedures are effective to ensure that the information we are required to disclose in the reports that we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure and that such information is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities Exchange Commission.

#### Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting that occurred during our most recent fiscal quarter that has materially affected or is reasonably likely to materially affect our internal control over financial reporting.

#### Management's Annual Report on Internal Control over Financial Reporting

Management of the Company is responsible for establishing and maintaining adequate internal control over the Company's financial reporting.

Management has used the criteria in *Internal Control* — *Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission to evaluate the effectiveness of its internal control over financial reporting.

Based on this criteria, management of the Company has concluded that the Company has maintained effective internal control over its financial reporting as of December 31, 2018.

Our independent registered public accounting firm that audited the December 31, 2018 financial statements included in this Annual Report on Form 10-K has independently assessed the effectiveness of our internal control over financial reporting and its report is below.

#### Other Matters

During the fourth quarter of 2018, the entities we acquired as part of our HIS acquisition were converted from their old Enterprise Resource Planning ("ERP") systems to our global ERP platform. This ERP system conversion did not have an adverse effect on our internal control over financial reporting.

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of ICU Medical, Inc.

#### **Opinion on Internal Control over Financial Reporting**

We have audited the internal control over financial reporting of ICU Medical, Inc. and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in *Internal Control-Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2018, of the Company and our report dated March 1, 2019, expressed an unqualified opinion on those financial statements.

#### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

#### **Definition and Limitations of Internal Control over Financial Reporting**

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ DELOITTE & TOUCHE LLP

Costa Mesa, California March 1, 2019

#### ITEM 9B. OTHER INFORMATION

None

#### PART III

#### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this Item 10 of Form 10-K is set forth under the captions *Executive Officers, Election of Directors, Audit Committee* and *Compliance with Section 16(a) Beneficial Ownership Reporting Compliance* in our definitive Proxy Statement to be filed in connection with our 2019 Annual Meeting of Stockholders, and such information is incorporated herein by reference.

We have a Code of Business Conduct and Ethics for Directors and Officers. A copy is available on our website, www.icumed.com. We will disclose any future amendments to, or waivers from, the Code of Business Conduct and Ethics for Directors and Officers on our website.

#### ITEM 11. EXECUTIVE COMPENSATION

The information required by this Item 11 of Form 10-K is set forth under the caption *Executive Officer and Director Compensation, Compensation Committee* and *Compensation Committee Interlocks and Insider Participation* in our definitive Proxy Statement to be filed in connection with our 2019 Annual Meeting of Stockholders, and such information is incorporated herein by reference.

### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this Item 12 of Form 10-K is set forth under the caption *Security Ownership of Certain Beneficial Owners and Management* and *Equity Compensation Plan Information* in our definitive Proxy Statement to be filed in connection with our 2019 Annual Meeting of Stockholders, and such information is incorporated herein by reference.

#### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this Item 13 of Form 10-K is set forth under the caption *Transactions with Related Persons*, *Policies and Procedures Regarding Transactions with Related Persons* and *Director Independence* in our definitive Proxy Statement to be filed in connection with our 2019 Annual Meeting of Stockholders, and such information is incorporated herein by reference.

#### ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this Item 14 of Form 10-K is set forth under the caption *Ratification of Auditors* in our definitive Proxy Statement to be filed in connection with our 2019 Annual Meeting of Stockholders, and such information is incorporated herein by reference.

#### PART IV

### ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

		Form 10-K Page No.
	The following documents are filed as part of this report:	
1.	Consolidated Financial Statements. See Index to Consolidated Financial Statements in Part II, Item 8 of this Form 10-K.	51
2.	Exhibits. The exhibits listed in the accompanying Exhibit Index are filed or incorporated by reference as part of this Form 10-K.	100
3.	Financial Statement Schedules. The Financial Statement Schedules required to be filed as a part of this Report are:	
	Schedule II — Valuation and Qualifying Accounts	103

	EXHIBIT INDEX							
Exhibit Number	Exhibit Description							
2.1	Stock Purchase Agreement dated as of October 5, 2015, by and among Registrant, Medline Industries, Inc., Roundtable Healthcare Partners, L.P., Roundtable Healthcare Investors, L.P. and certain other sellers party thereto. Filed as Exhibit 2.1 to Registrant's Current Report on Form 8-K filed October 6, 2015, and incorporated herein by reference.							
2.2	Asset Purchase Agreement made as of October 5, 2015, by and among Registrant, Excelsior Medical, LLC and Medline Industries, Inc. Filed as Exhibit 2.2 to Registrant's Current Report on Form 8-K filed October 6, 2015, and incorporated herein by reference.							
2.3	Amended and Restated Stock and Asset Purchase Agreement, dated as of January 5, 2017, by and between Pfizer Inc., a Delaware corporation, and ICU Medical, Inc., a Delaware corporation. Filed as Exhibit 2.1 to Registrant's Current Report on Form 8-K filed January 5, 2017, and incorporated herein by reference.							
3.1	Registrant's Certificate of Incorporation, as amended and restated. Filed as an exhibit to Registrant's Current Report on Form 8-K filed on June 10, 2014, and incorporated herein by reference.							
3.2	Registrant's Bylaws, as amended and restated. Filed as an Exhibit to Registrant's Current Report on Form 8-K filed August 3, 2016, and incorporated herein by reference.							
10.1	Form of Indemnification Agreement with Directors and Executive Officers. Filed as an Exhibit to Registrant's Quarterly Report on Form 10-Q for the Quarter ended September 30, 2010, filed October 22, 2010 (File No. 001-34634), and incorporated herein by reference.							
10.2	Amended and Restated Rights Agreement dated October 18, 2007 between Registrant and American Stock Transfer & Trust Company as Rights Agent. Filed as an Exhibit to Registrant's Registration Statement on Form 8-A/A dated October 18, 2007 (File No. 000-19974), and incorporated herein by reference.							
10.3	Registrant's 2001 Directors' Stock Option Plan.* Filed as an Exhibit to Registrant's definitive Proxy Statement filed pursuant to Regulation 14A on April 3, 2002 (File No. 000-19974), and incorporated herein by reference.							

10.4 Registrant's 2002 Employee Stock Purchase Plan.\* Filed as an Exhibit to Registrant's definitive Proxy Statement filed pursuant to Regulation 14A on April 3, 2002 (File No. 000-19974), and incorporated herein by reference. 10.5 Registrant's 2003 Stock Option Plan.\* Filed as an Exhibit to Registrant's definitive Proxy Statement filed pursuant to Regulation 14A on April 25, 2003 (File No. 000-19974), and incorporated herein by reference. 10.6 Settlement and Release Agreement dated as of January 2, 2007 between ICU Medical, Inc. and Fulwider Patton Lee & Utecht, LLP. Filed as an Exhibit to Registrant's Annual Report on Form 10-K for the year ended December 31, 2006, filed March 1, 2007 (File No. 000-19974), and incorporated herein by reference. 10.7 Executive officer compensation\* 10.8 Non-employee director compensation\* 10.9 2008 Performance-Based Incentive Plan, as amended.\* Filed as Annex A to Registrant's proxy statement filed April 3, 2013 (File No. 001-34634), and incorporated herein by reference. 10.10 Amendment No. 1 to 2001 Directors' Stock Option Plan.\* Filed as an Exhibit to Registrant's Quarterly Report on Form 10-O for the Ouarter ended September 30, 2009, filed October 22, 2009 (File No. 000-19974), and incorporated herein by reference. 10.11 Amendment No. 2 to 2001 Directors' Stock Option Plan.\* Filed as an Exhibit to Registrant's Quarterly Report on Form 10-Q for the Quarter ended September 30, 2009, filed October 22, 2009 (File No. 000-19974), and incorporated herein by reference. 10.12 Amendment No. 3 to 2001 Directors' Stock Option Plan.\* Filed as an Exhibit to Registrant's Quarterly Report on Form 10-O for the Ouarter ended September 30, 2009, filed October 22, 2009 (File No. 000-19974), and incorporated herein by reference. 10.13 Amended and Restated ICU Medical, Inc. 2011 Stock Incentive Plan.\* Filed as an Exhibit to Registrant's Quarterly Report on Form 10-Q for the Quarter ended March 31, 2018, and incorporated herein by reference. 10.14 2014 Inducement Stock Incentive Plan.\* Filed as an Exhibit to Registrant's Current Report on Form 8-K filed February 26, 2014 (File No. 001-34634) and incorporated herein by reference. 10.15 Amended and Restated Executive Employment Agreement, dated as of May 8, 2017, by and between ICU Medical, Inc. and Vivek Jain.\* Filed as an Exhibit to Registrant's Current Report on Form 8-K filed May 8, 2017, and incorporated herein by reference. 10.16 Buy-Out Agreement between Registrant and George A. Lopez, M.D. effective September 30, 2015.\* Filed as an Exhibit to Registrant's Current Report on Form 8-K filed October 1, 2015, and incorporated herein by reference. 10.17 Form of Shareholder Agreement, by and between a subsidiary of Pfizer Inc. and ICU Medical Inc dated February 3, 2017. Filed as an Exhibit to Registrant's Current Report on Form 8-K filed October 13, 2016, and incorporated herein by reference. 10.18 ICU Medical, Inc. Executive Severance Plan.\* Filed as an Exhibit to Registrant's Current Report on Form 8-K filed January 6, 2017, and incorporated herein by reference.

- Revolving Credit Agreement, dated as of November 8, 2017, among ICU Medical, Inc., as borrower, certain lenders party thereto and Wells Fargo Bank, N.A., as administrative agent and swingline lender. Filed as an Exhibit to Registrant's Quarterly Report on Form 10-Q for the Quarter ended September 30, 2017, and incorporated herein by reference.
- Transitional Services Agreement, between ICU Medical, Inc. and Pfizer Inc., dated as of February 3, 2017. Filed as an Exhibit to Registrant's Current Report on Form 8-K filed February 9, 2017, and incorporated herein by reference.
  - 21 Subsidiaries of Registrant.
- 23.1 Consent of Deloitte & Touche LLP
- 31.1 Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
  - 32 Certifications of Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Exhibit 101.INS	XBRL Instance Document
Exhibit 101.SCH	XBRL Taxonomy Extension Schema Document
Exhibit 101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
Exhibit 101.LAB	XBRL Taxonomy Extension Label Linkbase Document
Exhibit 101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
Exhibit 101.DEF	XBRL Taxonomy Extension Definition Linkbase Document

<sup>\*</sup>Executive compensation plan or other arrangement

### ICU MEDICAL, INC.

### VALUATION AND QUALIFYING ACCOUNTS

			Additions							
(Amounts in thousands) Description	Begi	ance at inning of eriod	C	narged to osts and xpenses		Charged to her Accounts		Vrite-off/ Disposals		Balance at End f Period
For the year ended December 31, 2016:										
Allowance for doubtful accounts	\$	1,101	\$	_	\$	(24)	\$	(4)	\$	1,073
Warranty and return reserve - accounts receivable	\$	583	\$	539	\$	_	\$	_	\$	1,122
Deferred tax asset valuation allowance	\$	2,354	\$	_	\$	_	\$	(2,354)	\$	_
For the year ended December 31, 2017:										
Allowance for doubtful accounts	\$	1,073	\$	2,308	\$	90	\$	(160)	\$	3,311
Warranty and return reserve - accounts receivable	\$	1,122	\$	604	\$	_	\$	_	\$	1,726
Deferred tax asset valuation allowance	\$	_	\$	7,385	\$	_	\$	_	\$	7,385
For the year ended December 31, 2018:										
Allowance for doubtful accounts	\$	3,311	\$	781	\$	1,676	\$	_	\$	5,768
Warranty and return reserve - accounts receivable	\$	1,726	\$	2,445	\$	2,581	\$	_	\$	6,752
Warranty and return reserve - inventory	\$	(503)	\$	2,908	\$	133			\$	2,538
Deferred tax asset valuation allowance	\$	7,385	\$	_	\$	_	\$	(1,949)	\$	5,436

#### **ITEM 16. FORM 10-K SUMMARY**

None

#### **SIGNATURE**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ICU MEDICAL, INC.

By: /s/ Vivek Jain

Vivek Jain

Chairman of the Board and Chief Executive Officer

Dated: March 1, 2019

#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of Registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Vivek Jain	Chairman of the Board and	March 1, 2019
Vivek Jain	Chief Executive Officer	
	(Principal Executive Officer)	
/s/ Scott E. Lamb	Chief Financial Officer	March 1, 2019
Scott E. Lamb	(Principal Financial Officer)	
/s/ Kevin J. McGrody	Chief Accounting Officer	March 1, 2019
Kevin J. McGrody	(Principal Accounting Officer)	
/s/ George A. Lopez, M.D.	Director	March 1, 2019
George A. Lopez, M.D.		
/s/ Robert S. Swinney, M.D.	Director	March 1, 2019
Robert S. Swinney, M.D.		
/s/ David C. Greenberg	Director	March 1, 2019
David C. Greenberg		
/s/ Elisha W. Finney	Director	March 1, 2019
Elisha W. Finney		
/s/ Douglas E. Giordano	Director	March 1, 2019
Douglas E. Giordano	<del></del>	
/s/ David F. Hoffmeister	Director	March 1, 2019
David F. Hoffmeister	<del></del>	
/s/ Donald M. Abbey	Director	March 1, 2019
Donald M. Abbey		•

### **Board of Directors**

Donald M. Abbey

Elisha W. Finney

David C. Greenberg

David F. Hoffmeister

Vivek Jain

George A. Lopez, MD

Robert S. Swinney, MD

### **Executive Management**

#### Vivek Jain\*

Chairman of the Board and Chief Executive Officer

#### Scott Lamb\*

Chief Financial Officer

#### Christian Voigtlander\*

Chief Operating Officer

#### Alison Burcar\*

Corporate Vice President, Product Stategy - Infusion Consumables

#### Tom McCall\*

Corporate Vice President, Marketing and Communications and General Manager, Critical Care

#### Virginia Sanzone\*

Corporate Vice President, General Counsel

#### Kevin McGrody\*

Chief Accounting Officer

#### **Greg Pratt**

Corporate Vice President, Sales

#### Clay Fradd

Corporate Vice President, Human Resources

#### Krishna Uppugonduri

Corporate Vice President, Quality, Medical, and Regulatory Affairs

#### Dan Woolson\*

Corporate Vice President and General Manager, Infusion Systems

# We Connect Patients and Caregivers

through safe, life-saving, life-enhancing medical devices.



<sup>\*&</sup>quot;Executive Officer" under the Securities Exchange Act of 1934

#### Auditors

Deloitte & Touche LLP 695 Town Center Drive Costa Mesa, CA 92626-7188

#### Transfer Agent and Registrar

American Stock Transfer & Trust Company, LLC. Operations Center 6201 15th Avenue Brooklyn, NY 11219

Phone: 800.937.5449

Local/International: 718.921.8124 Email: help@astfinancial.com

Overnight Delivery: Operations Center 6201 15th Avenue Brooklyn, NY 11219

#### Common Stock

Symbol: ICUI

The Nasdaq Global Select Market



Corporate Headquarters: 951 Calle Amanecer, San Clemente, California 92673 T: 800.824.7890 | F: 949.366.8368 www.icumed.com