

ANSYS INC  
Form 10-K  
February 26, 2015

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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549  
FORM 10-K  
(Mark One)

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

For the fiscal year ended December 31, 2014

OR

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

Commission File Number 0-20853

ANSYS, Inc.

(Exact name of registrant as specified in its charter)

Delaware

04-3219960

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

2600 ANSYS Drive, Canonsburg, PA

15317

(Address of principal executive offices)

(Zip Code)

724-746-3304

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Common Stock, \$0.01 par value per share

The NASDAQ Stock Market, LLC

(Title of each class)

(Name of exchange on which registered)

Securities registered pursuant to Section 12(g) of the Act:

None

(Title of class)

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

Indicate by a check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes ☐ No ☒

Indicate by a check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by a check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein and will not be contained, to the best of the Registrant's knowledge, in definitive proxy or information statements incorporated by reference in PART III of this Form 10-K, or any amendment to this Form 10-K. ☐

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

Large accelerated filer ☒

Accelerated filer ☐

Non-accelerated filer ☐

Smaller reporting company ☐

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Indicate by a check mark whether the registrant is a shell company (as defined in Exchange Act Rule 12b-2). Yes ☐ No ☒

The aggregate market value of the voting stock held by non-affiliates of the Registrant, based upon the closing sale price of the Common Stock on June 30, 2014 as reported on the NASDAQ Global Select Market, was \$5,569,000,000. Shares of Common Stock held by each officer, director and by each shareholder who owns 5% or more of the outstanding Common Stock have been excluded in that such shareholders may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes. The number of shares of the Registrant's Common Stock, par value \$.01 per share, outstanding as of February 20, 2015 was 90,023,551 shares.

Documents Incorporated By Reference:

Portions of the Proxy Statement for the Registrant's 2015 Annual Meeting of Stockholders are incorporated by reference into Part III.

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ANSYS, Inc.  
ANNUAL REPORT ON FORM 10-K FOR FISCAL YEAR 2014  
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### Important Factors Regarding Future Results

Information provided by ANSYS, Inc. (hereafter the "Company" or "ANSYS"), in this Annual Report on Form 10-K, may contain forward-looking statements concerning such matters as projected financial performance, market and industry segment growth, product development and commercialization, acquisitions or other aspects of future operations. Such statements, made pursuant to the safe harbor established by the securities laws, are based on the assumptions and expectations of the Company's management at the time such statements are made. The Company cautions investors that its performance (and, therefore, any forward-looking statement) is subject to risks and uncertainties. Various important factors including, but not limited to, those discussed in Item 1A. Risk Factors, may cause the Company's future results to differ materially from those projected in any forward-looking statement. All information presented is as of December 31, 2014, unless otherwise indicated.

## PART I

### ITEM 1. BUSINESS

ANSYS, a Delaware corporation formed in 1994, develops and globally markets engineering simulation software and services widely used by engineers, designers, researchers and students across a broad spectrum of industries and academia, including aerospace, automotive, materials and chemical processing, turbomachinery, consumer products, electronics, biomedical, energy, defense and others. Headquartered south of Pittsburgh, Pennsylvania, the Company and its subsidiaries employed approximately 2,700 people as of December 31, 2014. The Company focuses on the development of open and flexible solutions that enable users to analyze designs directly on the desktop, providing a common platform for fast, efficient and cost-conscious product development, from design concept to final-stage testing and validation. The Company distributes its ANSYS suite of simulation technologies through a global network of independent resellers and distributors (collectively, channel partners) and direct sales offices in strategic, global locations. It is the Company's intention to continue to maintain this hybrid sales and distribution model.

The Company's product portfolio consists of the following:

#### Simulation Platform: ANSYS® Workbench™

ANSYS Workbench is the framework upon which the Company's suite of advanced engineering simulation technologies is built. The innovative project schematic view ties together the entire simulation process, guiding the user through complex multiphysics analyses with drag-and-drop simplicity. With bi-directional computer-aided design ("CAD") connectivity, powerful highly-automated meshing, a project-level update mechanism, pervasive parameter management and integrated optimization tools, the ANSYS® Workbench™ platform delivers unprecedented productivity, enabling Simulation-Driven Product Development.™

#### Simulation Process and Data Management

ANSYS Engineering Knowledge Manager™ ("ANSYS EKM") is a comprehensive solution for simulation-based process and data management challenges. ANSYS EKM provides solutions and benefits to all levels of a company, enabling an organization to address the critical issues associated with simulation data including backup and archival, traceability and audit trail, process automation, collaboration and capture of engineering expertise, and intellectual property protection.

#### High-Performance Computing

The Company's high-performance computing ("HPC") product suite enables enhanced insight into product performance and improves the productivity of the design process. The HPC product suite delivers cross-physics parallel processing capabilities for the full spectrum of the Company's simulation software by supporting structures, fluids, thermal and electronics simulations. This product suite decreases turnaround time for individual simulations, allowing users to consider multiple design ideas and make the right design decisions early in the design cycle.

#### Geometry Interfaces

The Company offers comprehensive geometry handling solutions for engineering simulation in an integrated environment with direct interfaces to all major CAD systems, support of additional readers and translators, and an integrated geometry modeler exclusively focused on analysis.



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### Meshing

Creating a mesh that transforms a physical model into a mathematical model is a critical and foundational step in almost every engineering simulation study. Accurate meshing is especially challenging today with increasing product design complexity and heightened expectations of product performance. The Company's meshing technology provides a means to balance these requirements, obtaining the right mesh for each simulation in the most automated way possible. The technology is built on the strengths of world-class leading algorithms that are integrated in a single environment to produce the most robust and reliable meshing available.

### Structures

The Company's structural analysis product suite offers simulation tools for product design and optimization that increase productivity, minimize physical prototyping and help to deliver better and more innovative products in less time. These tools tackle real-world analysis problems by making product development less costly and more reliable. In addition, these tools have capabilities that cover a broad range of analysis types, elements, contacts, materials, equation solvers and coupled physics capabilities all targeted toward understanding and solving complex design problems.

### Explicit Dynamics

The Company's explicit dynamics product suite simulates events involving short-duration, large-strain, large-deformation, fracture, complete material failure or structural problems with complex interactions. This suite is ideal for simulating physical events that occur in a short period of time and may result in material damage or failure. Such events are often difficult or expensive to study experimentally.

### Composites

Composites blend two or more materials that possess very different properties. The Company's composite analysis and optimization technology efficiently defines materials, plies and stacking sequences, and also offers a wide choice of state-of-the-art failure criteria. The Company's composite software provides all necessary functionalities for finite element analysis of layered composites structures.

### Fluids

The Company's fluids product suite enables modeling of fluid flow and other related physical phenomena. Fluid flow analysis capabilities provide all the tools needed to design and optimize new fluids equipment and to troubleshoot already existing installations. The suite contains general-purpose computational fluid dynamics software and specialized products to address specific industry applications.

### Electronics

The Company's electronics product suite provides field simulation software for designing high-performance electronic and electromechanical products. The software streamlines the design process and predicts performance of mobile communication and internet-access devices, broadband networking components and systems, integrated circuits ("ICs") and printed circuit boards ("PCBs"), as well as electromechanical systems such as automotive components and power electronics equipment, all prior to building a prototype.

### Low-Power Electronics

The Company's power analysis and optimization software suite manages the power budget, power delivery integrity and power-induced noise in an electronic design, from initial prototyping to system sign-off. These solutions deliver accuracy with correlation to silicon measurement; the capacity to handle an entire electronic system, including IC, package and PCB; efficiency for ease-of-debug and fast turnaround time; and comprehensiveness to facilitate cross-domain communications and electronic ecosystem enablement.

### Systems

The Company delivers a unique and comprehensive system simulation capability that is ideal for the design of today's increasingly automated products. This collaborative environment leverages the Company's multiphysics, multibody dynamics, circuit and embedded software simulation capabilities, enabling users to simulate the complex interactions between components, circuits and control software within a single environment. These technologies provide a complete view into predicted product performance, which creates greater design confidence for engineers.



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### Multiphysics

The Company's multiphysics product suite allows engineers and designers to create virtual prototypes of their designs operating under real-world multiphysics conditions. As the range of need for simulation expands, companies must be able to accurately predict how complex products will behave in real-world environments, where multiple types of physics interact in a coupled way. ANSYS multiphysics software enables engineers and scientists to simulate the interactions between structures, heat transfer, fluids and electronics all within a single, unified engineering simulation environment.

### Embedded Software

The Company's SCADE® product suite is a comprehensive solution for embedded software simulation, code production and automated certification. It has been developed specifically for use in critical systems with high dependability requirements, including aerospace, rail transportation, nuclear, industrial applications and, more recently, automotive. SCADE® software supports the entire development workflow, from requirements analysis and design, through verification, implementation and deployment. SCADE® solutions easily integrate with each other and the rest of the ANSYS product suite, allowing for development optimization and increased communication among team members.

### 3-D Direct Modeling

The Company's 3-D direct modeling technology provides a CAD-neutral environment to modify and prepare geometry for simulation. This approach allows engineers to dramatically reduce the pre-processing step in simulation, and ultimately delivers product design insights much faster in the earliest stages of development.

### Academic

The Company's academic product suite provides a highly scalable portfolio of academic products based on several usage tiers: associate, research and teaching. Each tier includes various noncommercial products that bundle a broad range of physics and advanced coupled field solver capabilities. The academic product suite provides entry-level tools intended for class demonstrations and hands-on instruction. It includes flexible terms of use and more complex analysis suitable for doctoral and post-doctoral research projects. The Company also provides a low-cost product for simplified problems suitable for student use away from the classroom.

## PRODUCT DEVELOPMENT

The Company makes significant investments in research and development and emphasizes frequent, integrated product releases. The Company's product development strategy centers on ongoing development and innovation of new technologies to increase productivity and to provide engineering simulation solutions that customers can integrate into enterprise-wide product lifecycle management ("PLM") systems. The Company's product development efforts focus on extensions of the full product line with new functional modules, further integration with CAD, electronic CAD ("ECAD"), PLM products and the development of new products. The Company's products run on the most widely used engineering computing platforms and operating systems, including Windows, Linux and most UNIX workstations.

During the year ended December 31, 2014 and in the period from January 1, 2015 until the filing date, the Company completed the following major product development activities and releases:

• In January 2015, the Company announced the release of ANSYS® 16.0, with major advancements across the Company's entire product portfolio.

The pervasive connectivity of electronic devices requires a higher standard for hardware and software reliability. ANSYS 16.0 delivers capabilities to verify electronics reliability and performance throughout the design process. Another important new feature in ANSYS 16.0 is the ability to create 3-D components and integrate them into larger electronic assemblies. This modeling approach can facilitate the creation of wireless communication systems, which is especially useful as these systems become more complex. Simulation-ready 3-D components are created and stored in library files that can be added to larger system designs without the need to apply excitations, boundary conditions and material properties.

ANSYS 16.0 accelerates the process for engineers to model thin materials, such as sheet metal and plate steel, and define how parts are connected in a complete assembly. It provides new functionality for composite designs and comprehensive tools for understanding the solution results. ANSYS 16.0 provides advanced solutions for elastomers,



such as rubber, which are often used in seals and vibration dampers, and features adaptive re-meshing, which refines the mesh in highly distorted areas without the need for the user to stop the simulation manually.

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In addition, ANSYS 16.0 significantly reduces fluid dynamics preprocessing time for complex models. Engineers designing turbomachinery equipment will benefit from significant simulation speed-up as a result of HPC scalability extending to thousands of central processing unit cores. Furthermore, continued advances in modeling transient blade row interaction will extend and improve engineers' ability to simulate the complex, unsteady flow phenomena found in such rotating machinery as aircraft engines and power generation turbines.

ANSYS 16.0 features extended modeling capabilities, enabling hardware and software engineers to define the intricacies of a system's and its subsystems' operations. This is crucial because, as systems become more complex, engineers need greater definition of their operations. Systems and software engineers can better collaborate on joint projects, reducing development time and effort. ANSYS 16.0 addresses this need with the addition of behavioral diagram modeling.

DO-178C, Software Considerations in Airborne Systems and Equipment Certification, is the new certification that authorities such as the Federal Aviation Administration, the European Aviation Safety Agency and Transport Canada will use to approve all commercial software-based aerospace systems. Within the aeronautics domain, ANSYS 16.0 provides a model-based approach that satisfies the requirements of DO-330, the tools qualification document within DO-178C, for the highest levels of safety requirements. ANSYS 16.0 is the first tool to meet that new certification requirement. ANSYS's SCADE® products provide a model-based approach that satisfies the requirements of DO-330.

As part of the launch, ANSYS is introducing ANSYS AIM™, an innovative, immersive simulation environment that lowers the barrier to entry for multiphysics simulations. ANSYS AIM simulation uses proven ANSYS technology packaged in a new intuitive environment, accessible to the entire engineering organization. Its guided simulation process paradigm delivers high levels of automation and provides opportunities for customization to automate engineering best practices.

In May 2014, the Company released the 2014 version of its RedHawk™ software. RedHawk 2014 delivers greater performance, capacity and coverage, as well as sign-off accuracy required to meet the increasing complexity of FinFET-based designs. The new software release incorporates technologies that enable the simulation of more than 100 million instances or over two billion node designs, while maintaining flat simulation accuracy for sign-off.

In addition, it introduces the industry's first integrated chip-package co-simulation and co-analysis solution, increasing the coverage and accuracy of power noise analysis, as well as streamlining the process. RedHawk 2014 is foundry certified for IR-drop and electromigration analysis for the latest process technology.

The Company's total research and development expenses were \$165.4 million, \$151.4 million and \$132.6 million in 2014, 2013 and 2012, respectively, or 17.7%, 17.6% and 16.6% of total revenue, respectively. As of December 31, 2014, the Company's product development staff consisted of approximately 1,000 employees, most of whom hold advanced degrees and have industry experience in engineering, mathematics, computer science or related disciplines. The Company has traditionally invested significant resources in research and development activities and intends to continue to make investments in these areas, particularly as it relates to expanding the capabilities of its flagship products and other products within its broad portfolio of simulation software, the evolution of its ANSYS®

Workbench™ platform, integrated multiphysics, expanding its HPC capabilities, an immersive user interface, robust design and ongoing integration of acquired technology.

### PRODUCT QUALITY

The Company's employees generally perform product development tasks according to predefined quality plans, procedures and work instructions. Certain technical support tasks are also subject to a quality process. These plans define for each project the methods to be used, the responsibilities of project participants and the quality objectives to be met. The majority of software products are developed under a quality system that is certified to the ISO 9001:2008 standard. The Company establishes quality plans for its products and services, and subjects product designs to multiple levels of testing and verification in accordance with processes established under the Company's quality system.

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### SALES AND MARKETING

The Company distributes and supports its products through a global network of independent channel partners, as well as through its own direct sales offices. This channel partner network provides the Company with a cost-effective, highly specialized channel of distribution and technical support. It also enables the Company to draw on business and technical expertise from a global network, provides relative stability to the Company's operations to offset geography-specific economic trends and provides the Company with an opportunity to take advantage of new geographic markets. The Company derived 24.9%, 25.3% and 26.0% of its total revenue through the indirect sales channel for the years ended December 31, 2014, 2013 and 2012, respectively.

The channel partners sell ANSYS products to new customers, expand installations within the existing customer base, offer training and consulting services, and provide the first line of ANSYS technical support. The Company's channel partner certification process helps to ensure that each channel partner has the ongoing capability to adequately represent the Company's expanding product lines and to provide an acceptable level of training, consultation and customer support.

The Company also has a direct sales management organization in place to develop an enterprise-wide, focused sales approach and to implement a worldwide major account strategy. The sales management organization also functions as a focal point for requests to ANSYS from the channel partners and provides additional support in strategic locations through the presence of direct sales offices.

During 2014, the Company continued to invest in its existing domestic and international strategic sales offices. In total, the Company's direct sales offices comprise 1,300 employees who are responsible for the sales, technical support, consulting services, marketing initiatives and administrative activities designed to support the Company's overall revenue growth and expansion strategies.

The Company's products are utilized by organizations ranging in size from small consulting firms to the world's largest industrial companies. No single customer accounted for more than 5% of the Company's revenue in 2014, 2013 or 2012.

Information with respect to foreign and domestic revenue may be found in Note 17 to the consolidated financial statements in Part IV, Item 15 of this Annual Report on Form 10-K and in the section entitled "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Part II, Item 7 of this Annual Report on Form 10-K.

### STRATEGIC ALLIANCES AND MARKETING RELATIONSHIPS

The Company has established and continues to pursue strategic alliances with advanced technology suppliers, hardware vendors, specialized application developers, and CAD, ECAD and PLM providers. The Company believes that these relationships facilitate accelerated incorporation of advanced technology into the Company's products, provide access to new customers, expand the Company's sales channels, develop specialized product applications and provide direct integration with leading CAD, electronic design automation ("EDA"), product data management and PLM systems.

The Company has technical and marketing relationships with leading CAD vendors, such as Autodesk, Dassault Systèmes, PTC and Siemens Product Lifecycle Management Software, to provide direct links between products. These links facilitate the transfer of electronic data models between the CAD systems and ANSYS products. Similarly, the Company maintains marketing and software development relationships with leading EDA software companies, including Cadence, Synopsys, Mentor Graphics, Zuken and Agilent. These relationships support transfer of data between electronics design and layout packages and the ANSYS electronics simulation portfolio.

The Company has strengthened relationships with leading suppliers of computer hardware, including Intel, AMD, Microsoft, NVIDIA, Hewlett-Packard, IBM, Dell, Cray, Fujitsu and other leading regional resellers and system integrators. These relationships provide the Company with joint marketing opportunities, such as advertising, public relations, editorial coverage and customer events. In addition, these alliances provide the Company with early access and technical collaboration on new and emerging computing technologies, ensuring that the Company's software products are certified to run effectively on the most current hardware platforms. In 2014, an important engagement with Intel occurred in the area of accelerator technology, and parallel scaling to 36,000 cores was demonstrated with Cray and the National Center for Supercomputing Applications.

The Company entered new partnerships with Amazon Web Services, Gcompute, Nimbix, R Systems, Penguin Computing, CPU 24/7 and Atos, pursuing best practices for executing engineering simulation in the Cloud. Supporting this effort, new certifications were introduced for the remote visualization solutions from Microsoft, OpenText, NICE SRL ("NICE") and RealVNC.

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The Company's Enhanced Solution Partner Program actively encourages specialized developers of software solutions to use the Company's technology as a development platform for their applications and provides customers with enhanced functionality related to their use of the Company's software. With over 100 active enhanced solution partnerships, spanning a wide range of technologies, including optimization, electronics, mechanical simulation, fluid simulation and CAD, this partner ecosystem extends the depth and breadth of the Company's technology offerings. Important software engagements in 2014 included extending a topology optimization-focused strategic partnership with Vanderplaats R&D, and expanding the deployment of the Company's development toolkits in response to growing demand from partners, including CoreTech System, Dassault Systèmes, FunctionBay, VirtualMotion and others.

The Company has a software license agreement with Livermore Software Technology Corporation ("LSTC") whereby LSTC has provided LS-DYNA software for explicit dynamics solutions used in applications such as crash test simulations in automotive and other industries. Under this arrangement, LSTC assists in the integration of the LS-DYNA software with the Company's pre- and post-processing capabilities and provides updates and problem resolution in return for royalties from sales of the ANSYS/LS-DYNA combined product.

The Company has a software license agreement with HBM that provides the advanced fatigue capabilities of nCode DesignLife™, a leading durability software from HBM. ANSYS® nCode DesignLife™ technology leverages the open architecture of the ANSYS platform and enables mechanical engineers to more easily address complex product life and durability issues before a prototype is built.

The Company has a software license agreement with NICE that targets the emerging paradigm of data-center-based deployment of simulation. EngineFrame from NICE is bundled with ANSYS EKM and facilitates running interactive ANSYS applications on remote data centers.

### COMPETITION

The Company believes that the principal factors affecting sales of its software include ease of use, breadth and depth of functionality, flexibility, quality, ease of integration with other software systems, file compatibility across computer platforms, range of supported computer platforms, performance, price and total cost of ownership, customer service and support, company reputation and financial viability, and effectiveness of sales and marketing efforts.

The Company continues to experience competition across all markets for its products and services. Some of the Company's current and possible future competitors have greater financial, technical, marketing and other resources than the Company, and some have well-established relationships with current and potential customers of the Company. The Company's current and possible future competitors also include firms that have or may in the future elect to compete by means of open source licensing. These competitive pressures may result in decreased sales volumes, price reductions and/or increased operating costs, and could result in lower revenues, margins and net income.

### PROPRIETARY RIGHTS AND LICENSES

The Company regards its software as proprietary and relies on a combination of trade secret, copyright, patent and trademark laws, license agreements, nondisclosure and other contractual provisions, and technical measures to protect its proprietary rights in its products. The Company distributes its software products under software license agreements that grant customers nonexclusive licenses, which are typically nontransferable, for the use of the Company's products. License agreements for the Company's products are directly between the Company and end-users. Use of the licensed software product is restricted to specified sites unless the customer obtains a multi-site license for its use of the software product. Software security measures are also employed to prevent unauthorized use of the Company's software products and the licensed software is subject to terms and conditions prohibiting unauthorized reproduction. Customers may purchase a perpetual license of the technology with the right to annually purchase ongoing maintenance, technical support and upgrades, or may lease the product on a fixed-term basis for a fee that includes the license, maintenance, technical support and upgrades.

The Company licenses its software products utilizing a combination of web-based and hard-copy license terms and forms. For certain software products, the Company primarily relies on "click-wrapped" licenses. The enforceability of these types of agreements under the laws of some jurisdictions is uncertain.

The Company also seeks to protect the source code of its software as a trade secret and as unpublished copyrighted work. The Company has obtained federal trademark registration protection for ANSYS and other marks in the U.S. and foreign countries. Additionally, the Company was awarded numerous patents by the U.S. Patent and Trademark Office, and has a number of patent applications pending. To the extent the Company does not choose to seek patent protection for its intellectual property, the Company primarily relies on the protection of its source code as a trade secret.

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Employees of the Company have signed agreements under which they have agreed not to disclose trade secrets or confidential information and, where legally permitted, that restrict engagement in or connection with any business that is competitive with the Company anywhere in the world while employed by the Company (and, in some cases, for specified periods thereafter), and that any products or technology created by them during their term of employment are the property of the Company. In addition, the Company requires all channel partners to enter into agreements not to disclose the Company's trade secrets and other proprietary information.

Despite these precautions, there can be no assurance that misappropriation of the Company's technology and proprietary information (including source code) will be prevented. Further, there can be no assurance that copyright, trademark, patent and trade secret protection will be available for the Company's products in certain jurisdictions, or that restrictions on the ability of employees and channel partners to engage in activities competitive with the Company will be enforceable. Costly and time-consuming litigation could be necessary in the future to enforce the Company's rights to its trade secrets and proprietary information or to enforce its patent rights and copyrights, and it is possible that, in the future, the Company's competitors may be able to obtain the Company's trade secrets or to independently develop similar, unpatented technology.

The software development industry is characterized by rapid technological change. Therefore, the Company believes that factors such as the technological and creative skills of its personnel, new product developments, frequent product enhancements, name recognition and reliable product maintenance are also important to establishing and maintaining technology leadership in addition to the various legal protections of its technology that may be available.

The Company does not believe that any of its products infringe upon the proprietary rights of third parties. There can be no assurance, however, that third parties will not claim such infringement by the Company or its licensors or licensees with respect to current or future products. The Company expects that software suppliers will increasingly be subject to the risk of such claims as the number of products and suppliers continues to expand and the functionality of products continues to increase. Any such claims, with or without merit, could be time consuming, result in costly litigation, cause product release delays or require the Company to enter into royalty or licensing agreements. Such royalty or licensing agreements, if required, may not be available on terms acceptable to the Company.

**SEASONAL VARIATIONS**

The Company's business has experienced seasonality, including quarterly reductions in software sales resulting from slowdowns of customer activities during the summer months, particularly in Europe, as well as from the seasonal purchasing and budgeting patterns of the Company's global customers. The Company's revenue is typically highest in the fourth quarter.

**DEFERRED REVENUE AND BACKLOG**

Deferred revenue consists of billings made or payments received in advance of revenue recognition from software license and maintenance agreements. The deferred revenue on the Company's consolidated balance sheets does not represent the total value of annual or multi-year, noncancellable software license and maintenance agreements. The Company's backlog represents installment billings for periods beyond the current quarterly billing cycle and customer orders received but not processed. The Company's deferred revenue and backlog as of December 31, 2014 and 2013 consisted of the following:

|                  | Balance at December 31, 2014 |           |           |
|------------------|------------------------------|-----------|-----------|
| (in thousands)   | Total                        | Current   | Long-Term |
| Deferred revenue | \$345,305                    | \$332,664 | \$12,641  |
| Backlog          | 122,985                      | 41,390    | 81,595    |
| Total            | \$468,290                    | \$374,054 | \$94,236  |
|                  | Balance at December 31, 2013 |           |           |
| (in thousands)   | Total                        | Current   | Long-Term |
| Deferred revenue | \$317,730                    | \$309,775 | \$7,955   |
| Backlog          | 91,786                       | 33,446    | 58,340    |
| Total            | \$409,516                    | \$343,221 | \$66,295  |

Revenue associated with deferred revenue and backlog that will be recognized in the subsequent twelve months is classified as current in the table above.





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As of December 31, 2014, the Company and its subsidiaries had 2,700 employees. At that date, there were also contract personnel and co-op students providing ongoing development services and technical support. Certain employees of the Company are subject to collective bargaining agreements and have local work councils.

**ACQUISITIONS**

The Company makes targeted acquisitions in order to support its long-term strategic direction, accelerate innovation, provide increased capabilities to its existing products, supply new products and services, expand its customer base and enhance its distribution channels. The following table presents the Company's acquisitions from January 1, 2012 to December 31, 2014.

| Date of closing | Company                            | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April 30, 2014  | SpaceClaim Corporation             | SpaceClaim Corporation ("SpaceClaim"), a leading provider of 3-D modeling technology, was acquired for \$85.0 million. SpaceClaim's software provides customers with a powerful and intuitive 3-D direct modeling solution to author new concepts and then leverage the power of simulation to rapidly iterate on these designs to drive innovation.                                                                                                                                                               |
| January 3, 2014 | Reaction Design                    | Reaction Design, a leading developer of chemistry simulation software, was acquired for \$19.1 million in cash. Reaction Design's solutions enable transportation manufacturers and energy companies to rapidly achieve their clean technology goals by automating the analysis of chemical processes via computer simulation and modeling solutions.                                                                                                                                                              |
| April 2, 2013   | EVEN - Evolutionary Engineering AG | EVEN - Evolutionary Engineering AG ("EVEN"), a leading provider of composite analysis and optimization technology relying on cloud computing, was acquired for \$8.1 million. The acquisition strengthens the Company's simulation solutions for composites technology, which has become a standard in manufacturing in a wide range of industries due to its combination of light weight, high strength and outstanding flexibility.                                                                              |
| August 1, 2012  | Esterel Technologies, S.A.         | Esterel Technologies, S.A. ("Esterel"), a leading provider of embedded software simulation solutions for mission critical applications, was acquired for \$58.2 million. Esterel's software enables software and systems engineers to design, simulate and automatically produce certified embedded software, which is the control code built into the electronics in aircraft, rail transportation, automotive, energy systems, medical devices and other industrial products that have central processing units. |

For further information on the Company's business combinations, see Note 3 to the consolidated financial statements included in Part IV, Item 15 of this Annual Report on Form 10-K.

**AVAILABLE INFORMATION**

The Company's website is [www.ansys.com](http://www.ansys.com). The Company also maintains a presence on social media through its blog at [www.ansys-blog.com](http://www.ansys-blog.com), Facebook page at [www.facebook.com/ANSYSInc](http://www.facebook.com/ANSYSInc), Twitter account at [www.twitter.com/ansys\\_inc](http://www.twitter.com/ansys_inc) and LinkedIn page at [www.linkedin.com/company/ansys-inc](http://www.linkedin.com/company/ansys-inc). The Company makes available on its website, free of charge, Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, interactive data files, Current Reports on Form 8-K, reports filed pursuant to Section 16 and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, as soon as reasonably practicable after such materials are electronically filed or furnished to the Securities and Exchange Commission ("SEC"). The Company's reports may also be obtained by accessing the EDGAR database of the SEC's website at [www.sec.gov](http://www.sec.gov). In addition, the Company has posted the charters for its Audit Committee, Compensation Committee, Nominating and Corporate Governance Committee, and Strategy Committee, as well as the Company's Code of Business Conduct and Ethics, Standard Business Practices and Corporate Governance Guidelines on its website. Information posted on the Company's website or social media accounts is not incorporated by reference in this Annual Report on Form 10-K.

#### ITEM 1A. RISK FACTORS

Information provided by the Company or its spokespersons, including information contained in this Annual Report on Form 10-K, may from time to time contain forward-looking statements concerning projected financial performance, market and industry sector growth, product development and commercialization or other aspects of future operations. Such statements will be based on the assumptions and expectations of the Company's management at the time such statements are made. The Company cautions investors that its performance (and, therefore, any forward-looking statement) is subject to risks and uncertainties. Various important factors including, but not limited to, the following may cause the Company's future results to differ materially from those projected in any forward-looking statement.

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**Global Economic Conditions.** The Company's operations and performance depend significantly on foreign and domestic economic conditions. Uncertainty regarding economic conditions may negatively impact the Company as customers defer spending in response to tighter credit, higher unemployment, financial market volatility, government austerity programs, negative financial news, declining valuations of investments and other factors. In addition, certain of the Company's customers' budgets may be constrained and they may be unable to purchase the Company's products at the same level as prior periods. The Company's customers' ability to pay for the Company's products and services may also be impaired, which may lead to an increase in the Company's allowance for doubtful accounts and write-offs of accounts receivable. Since the Company is exposed to the majority of major world markets, uncertainty in any significant market may negatively impact the Company's performance and results, particularly with respect to the Company's largest geographic customer bases. The Company is unable to predict the likely duration and severity of the current economic conditions or the likelihood of additional uncertainty arising in any of the Company's key markets. Should these conditions result in the Company not meeting its revenue growth objectives, the Company's operating results, cash flows and financial condition could be adversely affected.

**Decline in Customers' Businesses.** The Company's sales are based significantly on end-user demand for products in key industrial sectors. Many of these sectors periodically experience economic declines, which may be exacerbated by other economic factors. These factors may also adversely affect the Company's business by extending sales cycles and reducing revenue. These economic factors may cause the Company's customers to reduce the size of their workforce or cut back on operations and may lead to a reduction in renewals of licenses or maintenance contracts with the Company. The Company's customers may request discounts or extended payment terms on new products or seek to extend payment terms on existing contracts, all of which may cause fluctuations in the Company's future operating results. The Company may not be able to adjust its operating expenses to offset such fluctuations because a substantial portion of the Company's operating expenses is related to personnel, facilities and marketing programs. The level of personnel and related expenses may not be able to be adjusted quickly and is based, in significant part, on the Company's expectation for future revenue.

**Risks Associated with International Activities.** A majority of the Company's business comes from outside the United States and the Company has customers that supply a wide spectrum of goods and services in virtually all of the world's major economic regions. As the Company continues to expand its sales presence in international regions, the portion of its revenue, expenses, cash, accounts receivable and payment obligations denominated in foreign currencies continues to increase. If any of the foreign economies in which the Company does business deteriorate or suffer periods of uncertainty, the Company's business and performance may be negatively impacted through reduced customer spending, changes in purchasing cycles or timing, reduced access to credit for its customers, or other factors impacting the Company's international sales and collections.

As a result of its increasing international activities, the Company has revenue, expenses, cash, accounts receivable and payment obligations denominated in foreign currencies. As a result, the Company is subject to currency exchange risk. The Company's revenues and operating results are adversely affected when the U.S. Dollar strengthens relative to other currencies and are positively affected when the U.S. Dollar weakens. As a result, changes in currency exchange rates will affect the Company's financial position, results of operations and cash flows. In the event that there are economic declines in countries in which the Company conducts transactions, the resulting changes in currency exchange rates may affect the Company's financial position, results of operations and cash flows. The Company is most impacted by movements in and among the Japanese Yen, Euro, British Pound, Korean Won, Indian Rupee, Russian Rouble and U.S. Dollar. The Company seeks to reduce these risks primarily through its normal operating and treasury activities, but there can be no assurance that it will be successful in reducing these risks.

Additional risks inherent in the Company's international business activities include imposition of government controls; export license requirements; restrictions on the export of critical technology, products and services; the violation of anti-corruption laws and regulations, which are applicable to the Company, by third parties in countries where such conduct may be permissible or commonplace; political and economic instability; trade restrictions; changes in tariffs and taxes; difficulties in staffing and managing international operations; longer accounts receivable payment cycles; and the burdens of complying with a wide variety of foreign laws and regulations. Effective patent, copyright, trademark and trade secret protection may not be available in every foreign country in which the Company sells its

products and services. The Company's business, financial position, results of operations and cash flows could be materially, adversely affected by any of these risks.

**Stock Market and Stock Price Volatility.** Market prices for securities of software companies have generally been volatile. In particular, the market price of the Company's common stock has been, and may continue to be, subject to significant fluctuations as a result of factors affecting the Company, the software industry or the securities markets in general. Such factors include, but are not limited to, declines in trading price that may be triggered by the Company's failure to meet the expectations of securities analysts and investors. Moreover, the trading price could be subject to additional fluctuations in response to quarter-to-quarter variations in the Company's operating results, material announcements made by the Company or its competitors, conditions in the financial markets or the software industry generally, or other events and factors, many of which are beyond the Company's control.

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**Rapidly Changing Technology; New Products; Risk of Product Errors.** The Company operates in an industry generally characterized by rapidly changing technology and frequent new product introductions, which can render existing products obsolete or unmarketable. A major factor in the Company's future success will be its ability to anticipate technological changes and to develop and introduce, in a timely manner, enhancements to its existing products, products acquired in acquisitions and new products to meet those changes. If the Company is unable to introduce new products and to respond quickly to industry changes, its business, financial position, results of operations and cash flows could be materially, adversely affected.

The introduction and marketing of new or enhanced products require the Company to manage the transition from existing products in order to minimize disruption in customer purchasing patterns. There can be no assurance that the Company will be successful in developing and marketing, on a timely basis, new products or product enhancements, that its new products will adequately address the changing needs of the marketplace or that it will successfully manage the transition from existing products. Software products as complex as those offered by the Company may contain undetected errors when first introduced, or as new versions are released, and the likelihood of errors is increased as a result of the Company's commitment to the frequency of its product releases. There can be no assurance that errors will not be found in any new or enhanced products after commencement of commercial shipments. Certain products require a higher level of sales and support expertise. The ability of the Company's sales channel, particularly the indirect channel, to obtain this expertise and to sell the new product offerings effectively could have an adverse impact on the Company's sales in future periods. Any of these problems may result in the loss of or delay in customer acceptance, diversion of development resources, damage to the Company's reputation, or increased service and warranty costs, any of which could have a material, adverse effect on the Company's business, financial position, results of operations and cash flows.

**Product Quality.** The Company has separate quality systems and registrations under the ISO 9001:2008 standard, in addition to other governmental and industrial regulations. The Company's continued compliance with quality standards and favorable outcomes in periodic examinations is important to retain current customers and vital to procure new sales. If the Company was determined not to be compliant with various regulatory or ISO 9001/9000 standards, its certificates of registration could be suspended, requiring remedial action and a time-consuming re-registration process. Product quality issues or failures could result in the Company's reputation becoming diminished, resulting in a material, adverse impact on revenue, operating margins, net income, financial position and cash flows.

**Competition.** The Company continues to experience competition across all markets for its products and services. Some of the Company's current and possible future competitors have greater financial, technical, marketing and other resources than the Company, and some have well-established relationships with current and potential customers of the Company. The Company's current and possible future competitors also include firms that have or may in the future elect to compete by means of open source licensing. Parties among the Company's current or future strategic alliances may diminish or sever technical, software development and marketing relationships with the Company for competitive purposes. These competitive pressures may result in decreased sales volumes, price reductions and/or increased operating costs, and could result in lower revenues, margins and net income.

**Changes in the Company's Pricing Models.** The intense competition the Company faces in the sales of its products and services, and general economic and business conditions, can put pressure on the Company to adjust its prices. If the Company's competitors offer deep discounts on certain products or services, or develop products that the marketplace considers more valuable, the Company may need to lower prices or offer discounts or other favorable terms in order to compete successfully. Any such changes may reduce operating margins and could adversely affect operating results. The Company's software license updates and product support fees are generally priced as a percentage of its new software license fees. The Company's competitors may offer lower percentage pricing on product updates and support that could put pressure on the Company to further discount its new license or product support prices.

Any broad-based change to the Company's prices and pricing policies could cause new software license and service revenues to decline or be delayed as its sales force implements and its customers adjust to the new pricing policies. Some of the Company's competitors may bundle software products for promotional purposes or as a long-term pricing strategy or provide guarantees of prices, product implementations or wider geographical license usage provisions. These practices could, over time, significantly constrain the prices that the Company can charge for certain of its

products. If the Company does not adapt its pricing models to reflect changes in customer use of its products or changes in customer demand, the Company's new software license revenues could decrease. Additionally, increased distribution of applications through application service providers, including software-as-a-service providers, may reduce the average price for the Company's products or adversely affect other sales of the Company's products, reducing new software license revenues unless the Company can offset price reductions with volume increases. The increase in open source software distribution may also cause the Company to adjust its pricing models.

**Dependence on Senior Management and Key Technical Personnel.** The Company's success depends upon the continued services of the Company's senior executives, key technical employees and other employees. Each of the Company's executive

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officers, key technical personnel and other employees could terminate his or her relationship with the Company at any time. The loss of any of the Company's senior executives might significantly delay or prevent the achievement of the Company's business objectives and could materially harm the Company's business and customer relationships.

In addition, because of the highly technical nature of the Company's products, the Company must attract and retain highly skilled engineering and development personnel, many of whom are recruited from outside of the United States. The market for this talent is highly competitive. The Company is limited in its ability to recruit internationally by restrictive domestic immigration laws. If the Company has less success in recruiting and retaining key personnel, the Company's business, reputation and operating results could be materially and adversely affected.

**Dependence on Proprietary Technology.** The Company's success is highly dependent upon its proprietary technology. The Company generally relies on contracts and the laws of copyrights, patents, trademarks and trade secrets to protect its technology. The Company maintains a trade secrets program, enters into confidentiality agreements with its employees and channel partners, and limits access to and distribution of its software, documentation and other proprietary information. There can be no assurance that the steps taken by the Company to protect its proprietary technology will be adequate to prevent misappropriation of its technology by third parties, or that third parties will not be able to develop similar technology independently. Costly and time-consuming litigation could be necessary to enforce and determine the scope of trade secret rights and related confidentiality and nondisclosure provisions.

Although the Company is not aware that any of its technology infringes upon the rights of third parties, there can be no assurance that other parties will not assert technology infringement claims against the Company or that, if asserted, such claims will not prevail.

**Risks Associated with Security of the Company's Products, Source Code and IT Systems.** The Company makes significant efforts to maintain and improve the security and integrity of its products, source code, computer systems and data. Despite significant efforts to create security barriers to such programs, it is virtually impossible for the Company to entirely mitigate this risk. There appears to be an increasing number of computer "hackers" developing and deploying a variety of destructive software programs (such as viruses, worms, and the like) that could attack the Company's products and computer systems. Because the techniques used to obtain unauthorized access to networks or to sabotage systems change frequently and generally are not recognized until launched against a target, the Company may be unable to anticipate these techniques or to implement adequate preventative measures. Like all software products, the Company's software is vulnerable to such attacks. The impact of such an attack could disrupt the proper functioning of the Company's software products, cause errors in the output of its customers' work, allow unauthorized access to sensitive, proprietary or confidential information of the Company or its customers and other destructive outcomes. If this were to occur, the Company's reputation may suffer, customers may stop buying its products, it could face lawsuits and potential liability and its financial performance could be negatively impacted.

There is also a danger of industrial espionage, cyber-attacks, misuse, theft of information or assets (including source code), or damage to assets by people who have gained unauthorized access to the Company's facilities, systems or information. Such cybersecurity breaches, misuse or other disruptions could lead to the disclosure of portions of the Company's product source code or other confidential information, improper usage and distribution of its products without compensation, illegal usage of its products which could jeopardize the security of information stored in and transmitted through its computer systems, and theft, manipulation and destruction of private and proprietary data, resulting in defective products and production downtimes. Although the Company actively employs measures to combat unlicensed copying, access and use of software and intellectual property through a variety of techniques, preventing unauthorized use or infringement of the Company's rights is inherently difficult. These events could adversely affect the Company's financial results or could result in significant claims for damages against it.

Participating in lawsuits to protect against any such unauthorized access to, usage of or disclosure of any of the Company's products or any portion of the Company's product source code, or in prosecutions in connection with any such cybersecurity breach, could be costly and time-consuming, and may divert management's attention, adversely affecting the market's perception of the Company and its products.

Policing the unauthorized distribution and use of the Company's products is difficult, and software piracy (including online piracy) is a persistent problem. The proliferation of technology designed to circumvent typical software protection measures used in the Company's products, and the possibility that methods of circumventing the techniques

it employs in its products, may lead to an expansion in piracy or misuse of its products and intellectual property. As a result, and despite the Company's efforts to prevent such activities and to prosecute instances of such activities, the Company may nonetheless lose significant revenue due to illegal use of its software, and management's attention may be diverted to address specific instances of piracy or misuse, or address piracy and misuse in general.

A number of the Company's core processes, such as software development, sales and marketing, customer service and financial transactions, rely on its IT infrastructure and applications. The Company also relies upon third-party products, which are exposed to various security vulnerabilities. Malicious software, sabotage and other cybersecurity breaches of the types discussed above could cause an outage of the Company's infrastructure, which could lead to a substantial denial of service and



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ultimately to production downtime, recovery costs and customer claims. This could have a significant negative impact on the Company's business, financial position, profit or cash flows.

The Company has implemented a number of measures designed to ensure the security of its information, IT resources and other assets. Nonetheless, unauthorized users could gain access to its systems through cyber-attacks and steal, use without authorization, and sabotage the Company's intellectual property and confidential data. Any breach of its IT security, misuse or theft could lead to loss of production, recovery costs or litigation brought by employees, customers or business partners, which could have a significant negative impact on the Company's business, financial position, profit, cash flows and reputation.

**Dependence on Channel Partners.** The Company continues to distribute a meaningful portion of its products through its global network of independent, regional channel partners. The channel partners sell the Company's software products to new and existing customers, expand installations within the existing customer base, offer consulting services and provide the first line of technical support. Consequently, in certain geographies, the Company is highly dependent upon the efforts of the channel partners. Difficulties in ongoing relationships with channel partners, such as failure to meet performance criteria or to promote the Company's products as aggressively as the Company expects, and differences in the handling of customer relationships, could adversely affect the Company's performance. Additionally, the loss of any major channel partner for any reason, including a channel partner's decision to sell competing products rather than the Company's products, could have a material, adverse effect on the Company. Moreover, the Company's future success will depend substantially on the ability and willingness of its channel partners to continue to dedicate the resources necessary to promote the Company's portfolio of products and to support a larger installed base of the Company's products. If the channel partners are unable or unwilling to do so, the Company may be unable to sustain revenue growth.

During times of significant fluctuations in world currencies, certain channel partners may have solvency issues to the extent that effective hedge transactions are not employed or there is not sufficient working capital. In particular, if the U.S. Dollar strengthens relative to other currencies, certain channel partners who pay the Company in U.S. Dollars may have trouble paying the Company on time or may have trouble distributing the Company's products due to the impact of the currency exchange fluctuation on such channel partner's cash flows. This may impact the Company's ability to distribute its products into certain regions and markets, and may have an adverse effect on the Company's results of operations and cash flows.

**Reliance on Perpetual Licenses.** Although the Company has historically maintained stable recurring revenue from the sale of software lease licenses and software maintenance subscriptions, it also has relied on sales of perpetual licenses that involve payment of a single, up-front fee and that are more typical in the computer software industry. While revenue generated from software lease licenses and software maintenance subscriptions currently represents a portion of the Company's revenue, to the extent that perpetual license revenue continues to represent a significant percentage of total revenue, the Company's revenue in any period will depend significantly on sales completed during that period. If customer purchasing patterns shift toward a stronger preference for lease licenses and fewer perpetual licenses, there could be a short-term, adverse impact on the Company's revenue and profitability.

In addition, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. 2014-09, Revenue from Contracts with Customers (Topic 606), which supersedes most current revenue recognition guidance, including industry-specific guidance. This update, which is effective for reporting periods beginning after December 15, 2016, could affect the timing and amounts of revenue recognized for perpetual licenses, which could have an adverse impact on the Company's revenue and results of operations.

**Renewal Rates for Annual Lease and Maintenance Contracts.** A substantial portion of the Company's license and maintenance revenue is derived from annual lease and maintenance contracts. These contracts are generally renewed on an annual basis and typically have a high rate of customer renewal. In addition to the recurring revenue base associated with these contracts, a majority of customers purchasing new perpetual licenses also purchase related annual maintenance contracts. If the rate of renewal for these contracts is adversely affected by economic or other factors, the Company's license and maintenance growth will be adversely affected over the term that the revenue for those contracts would have otherwise been recognized. As a result, the Company's business, financial position, results of operations and cash flows may also be adversely impacted during those periods.

Risks Associated with Acquisitions. Historically, the Company has consummated acquisitions in order to support the Company's long-term strategic direction, accelerate innovation, provide increased capabilities to existing products, supply new products and services, expand its customer base and enhance its distribution channels. The Company has completed a number of acquisitions in recent years and expects to make additional acquisitions in the future, but may not be able to identify suitable acquisition candidates or, if suitable candidates are identified, the Company may not be able to complete the business combination on commercially acceptable terms. The process of exploring and pursuing acquisition opportunities may result in devotion of significant management and financial resources.

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Even if the Company is able to consummate acquisitions that it believes will be successful, such transactions present many risks including, among others: failing to achieve anticipated synergies and revenue increases; difficulty incorporating and integrating the acquired technologies or products with the Company's existing product lines; difficulty in coordinating, establishing or expanding sales, distribution and marketing functions, as necessary; disruption of the Company's ongoing business and diversion of management's attention to transition or integration issues; unanticipated and unknown liabilities; the loss of key employees, customers, partners and channel partners of the Company or of the acquired company; and difficulties implementing and maintaining sufficient controls, policies and procedures over the systems, products and processes of the acquired company. If the Company does not achieve the anticipated benefits of its acquisitions as rapidly or to the extent anticipated by the Company's management and financial or industry analysts, there could be a material, adverse effect on the Company's stock price, business, financial position, results of operations or cash flows.

In addition, for companies acquired, limited experience will exist for several quarters following the acquisition relating to how the acquired company's sales pipelines will convert into sales or revenues and the conversion rate post-acquisition may be quite different than the historical conversion rate. Because a substantial portion of the Company's sales are completed in the latter part of a quarter, and its cost structure is largely fixed in the short-term, revenue shortfalls may have a negative impact on the Company's profitability. A delay in a small number of large, new software license transactions could cause the Company's quarterly software license revenues to fall significantly short of its predictions.

**Risks Associated with the SpaceClaim and Reaction Design Acquisitions.** On April 30, 2014, the Company completed the acquisition of SpaceClaim. Under the terms of the agreement, ANSYS acquired SpaceClaim for a purchase price of \$85.0 million, which was paid almost entirely in cash. On January 3, 2014, the Company completed the acquisition of Reaction Design. Under the terms of the agreement, ANSYS acquired Reaction Design for a purchase price of \$19.1 million in cash. The acquisitions are expected to accelerate development of new and innovative products to the marketplace while lowering design and engineering costs for customers. The Company will need to meet significant challenges to realize the expected benefits and synergies of the acquisitions. These challenges include:

- integrating the management teams, strategies, cultures and operations of the companies;
- retaining and assimilating the key personnel of each company;
- retaining existing customers of each company;
- developing new products and services that utilize the technologies and resources of the companies; and
- creating uniform standards, controls, procedures, policies and information systems.

The accomplishment of these post-acquisition objectives will involve considerable risks, including:

- the loss of key employees that are critical to the successful integration and future operations of the companies;
- the potential disruption of each company's ongoing business and distraction of their respective management teams;
- the difficulty and potential unanticipated expenses of incorporating acquired technology and rights into the Company's products and services;
- potential disruptions in each company's operations, loss of existing customers, loss of key information, expertise or know-how, and unanticipated additional recruitment and training costs;
- possible inconsistencies in standards, controls, procedures and policies that could adversely affect the Company's ability to maintain relationships with customers and employees or to achieve the anticipated benefits of the acquisitions; and
- potential unknown liabilities associated with the acquisitions.

The market price of the Company's common stock may decline as a result of the acquisitions for a number of reasons, including:

- the integration of SpaceClaim and Reaction Design by the Company may be unsuccessful; and
- the Company may not achieve the perceived benefits of the acquisitions as rapidly as or to the extent anticipated by financial or industry analysts.



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If the Company does not succeed in addressing these challenges or any other problems encountered in connection with the acquisitions, its operating results and financial condition could be adversely affected.

**Disruption of Operations or Infrastructure Failures.** A significant portion of the Company's software development personnel, source code and computer equipment is located at operating facilities in the United States, Canada, India, Japan and throughout Europe. The occurrence of a natural disaster or other unforeseen catastrophe at any of these facilities could cause interruptions in the Company's operations, services and product development activities.

Additionally, if the Company experiences problems that impair its business infrastructure, such as a computer virus, telephone system failure or an intentional disruption of its information technology systems by a third party, these interruptions could have a material, adverse effect on the Company's business, financial position, results of operations, cash flows and the ability to meet financial reporting deadlines. Further, because the Company's sales are not generally linear during any quarterly period, the potential adverse effects resulting from any of the events described above or any other disruption of the Company's business could be accentuated if it occurs close to the end of a fiscal quarter.

**Sales Forecasts.** The Company makes many operational and strategic decisions based upon short- and long-term sales forecasts. The Company's sales personnel continually monitor the status of all proposals, including the estimated closing date and the value of the sale, in order to forecast quarterly sales. These forecasts are subject to significant estimation and are impacted by many external factors, including global economic conditions and the performance of the Company's customers. A variation in actual sales activity from that forecasted could cause the Company to plan or budget incorrectly and, therefore, could adversely affect the Company's business, financial position, results of operations and cash flows. The Company's management team forecasts macroeconomic trends and developments, and integrates them through long-range planning into budgets, research and development strategies and a wide variety of general management duties. Global economic conditions, and the effect those conditions and other disruptions in global markets have on the Company's customers, may have a significant impact on the accuracy of the Company's sales forecasts. These conditions may increase the likelihood or the magnitude of variations between actual sales activity and the Company's sales forecasts and, as a result, the Company's performance may be hindered because of a failure to properly match corporate strategy with economic conditions. This, in turn, may adversely affect the Company's business, financial position, results of operations and cash flows.

**Risks Associated with Significant Sales to Existing Customers.** A significant portion of the Company's sales includes follow-on sales to existing customers that invest in the Company's broad suite of engineering simulation software and services. If a significant number of current customers were to become dissatisfied with the Company's products and services, or choose to license or utilize competitive offerings, the Company's follow-on sales, and recurring lease and maintenance revenues, could be materially, adversely impacted, resulting in reduced revenue, operating margins, net income and cash flows.

**Periodic Reorganization of Sales Force.** The Company relies heavily on its direct sales force. From time to time, the Company reorganizes and makes adjustments to its sales leadership and/or its sales force in response to such factors as management changes, performance issues, market opportunities and other considerations. These changes may result in a temporary lack of sales production and may adversely impact revenue in future quarters. There can be no assurance that the Company will not restructure its sales force in future periods or that the transition issues associated with such a restructuring will not occur.

**Income Tax Estimates.** The Company makes significant estimates in determining its worldwide income tax provision. These estimates involve complex tax regulations in a number of jurisdictions across the Company's global operations and are subject to many transactions and calculations in which the ultimate tax outcome is uncertain. The final outcome of tax matters could be different than the estimates reflected in the historical income tax provision and related accruals. Such differences could have a material impact on income tax expense and net income in the periods in which such determinations are made.

The amount of income tax paid by the Company is subject to ongoing audits by federal, state and foreign tax authorities. These audits can often result in additional assessments, including interest and penalties. The Company's estimate for liabilities associated with uncertain tax positions is highly judgmental and actual future outcomes may result in favorable or unfavorable adjustments to the Company's estimated tax liabilities, including estimates for

uncertain tax positions, in the period the assessments are made or resolved, audits are closed or when statutes of limitation on potential assessments expire. As a result, the Company's effective tax rate may fluctuate significantly on a quarterly or annual basis.

The Company allocates a portion of its purchase price to goodwill and intangible assets. Impairment charges associated with goodwill are generally not tax-deductible and will result in an increased effective income tax rate in the period the impairment is recorded. The Company has recorded significant deferred tax liabilities related to acquired intangible assets that are not deductible for tax purposes. These deferred tax liabilities are based on future statutory tax rates in the locations in which the intangible assets are recorded. Any future changes in statutory tax rates would be recorded as an adjustment to the deferred tax liabilities in the period the change is announced, and could have a material impact on the Company's effective tax rate during that period.

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**Regulatory Compliance.** Like all other public companies, the Company is subject to the rules and regulations of the SEC, including those that require the Company to report on and receive an attestation from its independent registered public accounting firm regarding the Company's internal control over financial reporting. Compliance with these requirements causes the Company to incur additional expenses and causes management to divert time from the day-to-day operations of the Company. While the Company anticipates being able to fully comply with these requirements, if it is not able to comply with the Sarbanes-Oxley reporting or attestation requirements relating to internal control over financial reporting, the Company may be subject to sanctions by the SEC or NASDAQ. Such sanctions could divert the attention of the Company's management from implementing its business plan and could have an adverse effect on the Company's business and results of operations.

As the Company's stock is listed on the NASDAQ Global Select Market, the Company is subject to the ongoing financial and corporate governance requirements of NASDAQ. While the Company anticipates being able to fully comply with these requirements, if it is not able to comply, the Company's name may be published on NASDAQ's daily Non-Compliant Companies list until NASDAQ determines that it has regained compliance or the Company no longer trades on NASDAQ. If the Company were unable to return to compliance with the governance requirements of NASDAQ, the Company may be delisted from the NASDAQ Global Select Market, which could have an adverse effect on the market value of the Company's equity securities and the ability to raise additional capital.

**Governmental Revenue Sources.** The Company's sales to the United States government must comply with Federal Acquisition Regulations. Failure to comply with these regulations could result in penalties being assessed against the Company or an order preventing the Company from making future sales to the United States government. Further, the Company's international activities must comply with the export control laws of the United States and other countries, the Foreign Corrupt Practices Act, the United Kingdom Bribery Act of 2010 and a variety of other laws and regulations of the United States and other countries in which the Company operates. Failure to comply with any of these laws and regulations could adversely affect the Company's business, financial position, results of operations and cash flows.

In certain circumstances, the United States government, state and local governments and their respective agencies, and certain foreign governments may have the right to terminate contractual arrangements at any time, without cause. The United States, European Union and certain other government contracts, as well as the Company's state and local level contracts, are subject to the approval of appropriations or funding authorizations. Certain of these contracts permit the imposition of various civil and criminal penalties and administrative sanctions, including, but not limited to, termination of contracts, refund of a portion of fees received, forfeiture of profits, suspension of payments, fines and suspensions or debarment from future government business, any of which could have an adverse effect on the Company's results of operations and cash flows.

**Contingencies.** The Company is subject to various investigations, claims and legal proceedings that arise in the ordinary course of business, including commercial disputes, labor and employment matters, tax audits, alleged infringement of intellectual property rights and other matters. Each of these matters is subject to various uncertainties, and it is possible that an unfavorable resolution of one or more of these matters could materially affect the Company's results of operations, cash flows or financial position.

**Changes in Existing Financial Accounting Standards.** Changes in existing accounting rules or practices, new accounting pronouncements, or varying interpretations of current accounting pronouncements could have a significant, adverse effect on the Company's results of operations or the manner in which the Company conducts its business.

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. 2014-09, Revenue from Contracts with Customers (Topic 606) (ASU 2014-09). ASU 2014-09 supersedes most current revenue recognition guidance, including industry-specific guidance. The Company is currently evaluating the effect that implementation of this update will have on its financial results upon adoption. This update will impact the timing and amounts of revenue recognized, including a potential impact on transactions completed prior to adoption, which could have a significant, adverse impact on the Company's results of operations.

In addition, the Company could incur significant costs for changes to its business systems, processes and internal controls as a result of the transition. These costs could have a significant, adverse impact on the Company's results of

operations and cash flows. The transition could also cause management to divert time from the day-to-day operations of the Company, which could impact the Company's business. If the Company is unable to successfully transition its business systems, processes and internal controls before the guidance effective date, it could impact the ability to meet financial reporting deadlines.

**Changes in Tax Law.** The Company's operations are subject to income and transaction taxes in the United States and in multiple foreign jurisdictions. A change in the tax law in the jurisdictions in which the Company does business, including an increase in tax rates, an adverse change in the treatment of an item of income or expense, or a decrease in tax rates in a jurisdiction in which the Company has significant deferred tax assets, could result in a material increase in tax expense. Currently, a substantial portion of the Company's revenue is generated from customers located outside the United States, and a



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substantial portion of assets are located outside the United States. United States income taxes and foreign withholding taxes have not been provided on undistributed earnings for non-United States subsidiaries to the extent such earnings are considered to be indefinitely reinvested in the operations of those subsidiaries. Changes in existing taxation rules or practices, new taxation rules, or varying interpretations of current taxation practices could have a material, adverse effect on the Company's results of operations or the manner in which the Company conducts its business.

The Company has significant operations in India. There have been court rulings concerning certain Indian tax laws that have been inconsistent with tax positions taken by the Company and inconsistent with the advice provided to the Company by its tax advisors.

An Indian subsidiary of the Company received a formal inquiry after a service tax audit was held in 2011. The Company could incur tax charges and related liabilities, including those related to the service tax audit case, of approximately \$6 million. The service tax issues raised in the Company's notice are very similar to the case, M/s Microsoft Corporation (I) (P) Ltd. Vs Commissioner of Service Tax, New Delhi, wherein the Delhi Customs, Excise and Service Tax Appellate Tribunal (CESTAT) has passed a ruling favorable to Microsoft. The Company can provide no assurances on whether the Microsoft case's favorable ruling will be challenged in higher courts or on the impact that the Microsoft case's decision will have on the Company's audit case. The Company is uncertain as to when the service tax audit will be completed.

Other court cases are pending in India that could have a material impact on the Company's financial position, results of operations or cash flows if the ultimate outcome of those cases is similarly inconsistent with tax positions taken by the Company.

### ITEM 1B. UNRESOLVED STAFF COMMENTS

The Company has received no written comments regarding our periodic or current reports from the staff of the SEC that were issued 180 days or more preceding the end of our fiscal year 2014 and that remain unresolved.

### ITEM 2. PROPERTIES

The Company's executive offices and those related to certain domestic product development, marketing, production and administration are located in a 186,000 square foot office facility in Canonsburg, Pennsylvania. On September 14, 2012, the Company entered into a lease agreement for this facility, which serves as the Company's new headquarters. The lease was effective as of September 14, 2012, but because the leased premises were under construction, the Company was not obligated to pay rent until January 1, 2015. The term of the lease is 183 months, beginning on October 1, 2014.

The Company leases a 52,000 square foot office facility in San Jose, California. In June 2012, the Company entered into a new lease for this property, with the lease term commencing July 1, 2012 and ending June 30, 2022.

The Company owns: a 94,000 square foot office facility in Lebanon, New Hampshire; a 60,000 square foot office building near its current Canonsburg headquarters; and a 60,000 square foot facility in Pune, India.

The Company and its subsidiaries also lease office space in various locations throughout the world. The Company owns substantially all equipment used in its facilities. Management believes that, in most geographic locations, its facilities allow for sufficient space to support present and future foreseeable needs, including such expansion and growth as the business may require. In other geographic locations, the Company expects that it will be required to expand capacity beyond that which it currently owns or leases.

The Company's properties and equipment are in good operating condition and are adequate for the Company's current needs. The Company does not anticipate difficulty in renewing existing leases as they expire or in finding alternative facilities.

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ITEM 3. LEGAL PROCEEDINGS

The Company is subject to various investigations, claims and legal proceedings that arise in the ordinary course of business, including commercial disputes, labor and employment matters, tax audits, alleged infringement of intellectual property rights and other matters. In the opinion of the Company, the resolution of pending matters is not expected to have a material, adverse effect on the Company's consolidated results of operations, cash flows or financial position. However, each of these matters is subject to various uncertainties and it is possible that an unfavorable resolution of one or more of these proceedings could, in the future, materially affect the Company's results of operations, cash flows or financial position.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

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## PART II

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

The Company's common stock trades on the NASDAQ Global Select Market tier of the NASDAQ Stock Market under the symbol: "ANSS". The following table sets forth the low and high sale price of the Company's common stock in each of the Company's last eight fiscal quarters.

|              | Fiscal Quarter Ended 2014 |                    | Fiscal Quarter Ended 2013 |                    |
|--------------|---------------------------|--------------------|---------------------------|--------------------|
|              | Low Sale<br>Price         | High Sale<br>Price | Low Sale<br>Price         | High Sale<br>Price |
| December 31  | \$71.09                   | \$84.87            | \$81.20                   | \$89.42            |
| September 30 | \$73.67                   | \$82.96            | \$72.19                   | \$89.71            |
| June 30      | \$71.50                   | \$78.13            | \$70.66                   | \$81.52            |
| March 31     | \$72.10                   | \$87.15            | \$68.33                   | \$81.55            |

On January 15, 2015, there were 169 stockholders of record and 90,385 beneficial holders of the Company's common stock.

The Company has not paid cash dividends on its common stock as it has retained earnings primarily for acquisitions, future business opportunities and to repurchase stock when authorized by the Board of Directors and when such repurchase meets the Company's objectives. The Company reviews its policy with respect to the payment of dividends from time to time; however, there can be no assurance that any dividends will be paid in the future.

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Performance Graph

Set forth below is a line graph comparing the yearly percentage change in the cumulative total stockholder return on the Company's common stock, based on the market price of the Company's common stock, with the total return of companies included within the Russell 1000 Index, the NASDAQ Composite Stock Market Index and an industry peer group of four companies (Autodesk, Inc., PTC Inc., Cadence Design Systems, Inc. and Synopsys, Inc.) selected by the Company pursuant to Item 201(e) of Regulation S-K, for the period commencing January 1, 2010 and ending December 31, 2014. The calculation of total cumulative returns assumes a \$100 investment in the Company's common stock, the Russell 1000 Index, the NASDAQ Composite Stock Market Index and the peer group on January 1, 2010, and the reinvestment of all dividends, and accounts for all stock splits. The historical information set forth below is not necessarily indicative of future performance.

ASSUMES \$100 INVESTED ON JANUARY 1, 2010

ASSUMES DIVIDENDS REINVESTED

FIVE FISCAL YEARS ENDING DECEMBER 31, 2014

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## Equity Compensation Plan Information as of December 31, 2014

| Plan Category                                                 | (a)<br>Number of Securities<br>to be Issued Upon<br>Exercise of<br>Outstanding Options,<br>Warrants and Rights | (b)<br>Weighted Average<br>Exercise Price of<br>Outstanding Options,<br>Warrants and Rights | (c)<br>Number of Securities<br>Remaining<br>Available<br>for Future Issuance<br>Under Equity<br>Compensation Plans<br>(excluding securities<br>reflected in column<br>(a)) |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equity Compensation Plans Approved by Security Holders        |                                                                                                                |                                                                                             |                                                                                                                                                                            |
| 1996 Stock Option and Grant Plan                              | 4,455,436                                                                                                      | \$ 50.73                                                                                    | 3,537,029                                                                                                                                                                  |
| Ansoft Corporation 2006 Stock Incentive Plan                  | 288,669                                                                                                        | \$ 37.62                                                                                    | —                                                                                                                                                                          |
| Apache Design Solutions, Inc. 2001 Stock/Option Issuance Plan | 171,417                                                                                                        | \$ 19.08                                                                                    | —                                                                                                                                                                          |
| SpaceClaim Corporation 2005 Stock Incentive Plan              | 16,936                                                                                                         | \$ 23.26                                                                                    | —                                                                                                                                                                          |
| 1996 Employee Stock Purchase Plan                             | (1)                                                                                                            | (2)                                                                                         | 265,488                                                                                                                                                                    |
| Equity Compensation Plans Not Approved by Security Holders    |                                                                                                                |                                                                                             |                                                                                                                                                                            |
| None                                                          |                                                                                                                |                                                                                             |                                                                                                                                                                            |
| Total                                                         | 4,932,458                                                                                                      |                                                                                             | 3,802,517                                                                                                                                                                  |

(1) The number of shares issuable with respect to the current offering period is not determinable until the end of the period.

(2) The per share purchase price of shares issuable with respect to the current offering period is not determinable until the end of the period.

## Unregistered Sale of Equity Securities and Use of Proceeds

None.

## Issuer Purchases of Equity Securities

| Period                         | Total Number<br>of Shares<br>Purchased | Average Price<br>Paid per Share | Total Number<br>of Shares<br>Purchased as<br>Part of Publicly<br>Announced<br>Plans or<br>Programs | Maximum<br>Number of<br>Shares that May<br>Yet Be<br>Purchased<br>Under Plans or<br>Programs <sup>(1)</sup> |
|--------------------------------|----------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| October 1 - October 31, 2014   | —                                      | —                               | —                                                                                                  | 1,568,497                                                                                                   |
| November 1 - November 30, 2014 | 784,969                                | \$79.81                         | 784,969                                                                                            | 4,215,031                                                                                                   |
| December 1 - December 31, 2014 | 760,413                                | 82.24                           | 760,413                                                                                            | 3,454,618                                                                                                   |
| Total                          | 1,545,382                              | \$81.00                         | 1,545,382                                                                                          | 3,454,618                                                                                                   |

(1) The Company initially announced its stock repurchase program in February 2000, and subsequently announced various amendments to the program. The most recent amendment to the program, which authorized an increase in the aggregate number of shares available for repurchase to 5,000,000 shares, was approved by the Company's Board of Directors in February 2015. There is no expiration date to this amendment.

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## ITEM 6. SELECTED FINANCIAL DATA

The following table sets forth selected financial data as of and for the last five years. This selected financial data should be read in conjunction with the consolidated financial statements and related notes included in Part IV, Item 15 of this Annual Report on Form 10-K.

|                                       | Year Ended December 31, |             |             |             |             |
|---------------------------------------|-------------------------|-------------|-------------|-------------|-------------|
| (in thousands, except per share data) | 2014                    | 2013        | 2012        | 2011        | 2010        |
| Total revenue                         | \$936,021               | \$861,260   | \$798,018   | \$691,449   | \$580,236   |
| Operating income                      | 347,450                 | 321,863     | 294,253     | 265,559     | 219,268     |
| Net income                            | 254,690                 | 245,327     | 203,483     | 180,675     | 153,132     |
| Earnings per share – basic            | \$2.77                  | \$2.65      | \$2.20      | \$1.96      | \$1.69      |
| Weighted average shares – basic       | 92,067                  | 92,691      | 92,622      | 92,120      | 90,684      |
| Earnings per share – diluted          | \$2.70                  | \$2.58      | \$2.14      | \$1.91      | \$1.64      |
| Weighted average shares – diluted     | 94,194                  | 95,139      | 94,954      | 94,381      | 93,209      |
| Total assets                          | \$2,774,103             | \$2,722,382 | \$2,607,417 | \$2,448,470 | \$2,126,876 |
| Working capital                       | 645,394                 | 627,165     | 435,972     | 301,282     | 403,264     |
| Long-term liabilities                 | 91,503                  | 145,705     | 189,739     | 255,246     | 285,578     |
| Stockholders' equity                  | 2,217,501               | 2,136,246   | 1,940,291   | 1,754,473   | 1,529,929   |
| Cash provided by operating activities | 385,307                 | 332,983     | 298,415     | 307,661     | 166,884     |

In the table above, the comparability of information among the years presented is impacted by the Company's acquisitions. The operating results of the Company's acquisitions have been included in the results of operations since their respective acquisition dates. For further information, see the “Acquisitions” section of Management’s Discussion and Analysis in Item 7 and Note 3 to the consolidated financial statements included in Part IV, Item 15 of this Annual Report on Form 10-K.

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

#### Overview

ANSYS, Inc.'s results for the year ended December 31, 2014 reflect growth in revenue of 8.7%, operating income of 7.9% and diluted earnings per share of 4.7% as compared to the year ended December 31, 2013. The Company experienced higher revenue in 2014 from growth in both license and maintenance revenue. The increase in revenue was partially offset by increased operating expenses, including higher salaries and additional operating expenses related to the Company's 2014 acquisitions. The net overall strengthening of the U.S. Dollar resulted in decreased revenue of \$7.6 million and decreased operating income of \$5.1 million during the year ended December 31, 2014 as compared to the year ended December 31, 2013. An \$11.0 million tax benefit in 2013 did not recur in 2014, which adversely impacted earnings per share growth from 2013 to 2014.

The Company's non-GAAP results for the year ended December 31, 2014 reflect growth in revenue of 8.7%, operating income of 6.8% and diluted earnings per share of 4.9% as compared to the year ended December 31, 2013. The non-GAAP results exclude the income statement effects of the acquisition accounting adjustment to deferred revenue, stock-based compensation, acquisition-related amortization of intangible assets and transaction costs related to business combinations. For further disclosure regarding non-GAAP results, see the section titled "Non-GAAP Results" immediately preceding the section titled "Liquidity and Capital Resources".

During the year ended December 31, 2014, the Company repurchased 2,976,885 shares of treasury stock for \$233.8 million at an average price of \$78.54 per share. The Company's financial position includes \$788.8 million in cash and short-term investments, and working capital of \$645.4 million as of December 31, 2014.

On April 30, 2014, the Company completed the acquisition of SpaceClaim, a leading provider of 3-D modeling technology. Under the terms of the agreement, ANSYS acquired SpaceClaim for a purchase price of \$85.0 million, which was paid almost entirely in cash, plus retention vehicles and an adjustment for working capital. The operating results of SpaceClaim have been included in the Company's consolidated financial statements since the date of acquisition.

In February 2014, the Company received a \$26.8 million refund related to its 2009 and 2010 federal income tax returns. The Company received notice from the Internal Revenue Service in 2013 that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010.

On January 3, 2014, the Company completed the acquisition of Reaction Design, a leading developer of chemistry simulation software, for a purchase price of \$19.1 million in cash. The operating results of Reaction Design have been included in the Company's consolidated financial statements from the date of acquisition.

ANSYS develops and globally markets engineering simulation software and services widely used by engineers, designers, researchers and students across a broad spectrum of industries and academia, including aerospace, automotive, materials and chemical processing, turbomachinery, consumer products, electronics, biomedical, energy, defense and others. Headquartered south of Pittsburgh, Pennsylvania, the Company and its subsidiaries employed approximately 2,700 people as of December 31, 2014 and focus on the development of open and flexible solutions that enable users to analyze designs directly on the desktop, providing a common platform for fast, efficient and cost-conscious product development, from design concept to final-stage testing and validation. The Company distributes its ANSYS suite of simulation technologies through a global network of independent channel partners and direct sales offices in strategic, global locations. It is the Company's intention to continue to maintain this hybrid sales and distribution model.

The Company licenses its technology to businesses, educational institutions and governmental agencies. Growth in the Company's revenue is affected by the strength of global economies, general business conditions, currency exchange rate fluctuations, customer budgetary constraints and the competitive position of the Company's products. Please see the sub-sections entitled "Global Economic Conditions," "Decline in Customers' Businesses," "Risks Associated with International Activities," "Rapidly Changing Technology; New Products; Risk of Product Defects" and "Competition" under Item 1A. Risk Factors for a complete discussion of how these factors might impact the Company's financial condition and operating results. The Company believes that the features, functionality and integrated multiphysics capabilities of its software products are as strong as they have ever been. However, the software business is generally

characterized by long sales cycles. These long sales cycles increase the difficulty of predicting sales for any particular quarter. The Company makes many operational and strategic decisions based upon short- and long-term sales forecasts that are impacted not only by these long sales cycles, but also by current global economic conditions. As a result, the Company believes that its overall performance is best measured by fiscal year results rather than by quarterly results. Please see the sub-section entitled "Sales Forecasts" under Item 1A. Risk Factors



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for a complete discussion of the potential impact of the Company's sales forecasts on the Company's financial condition, cash flows and operating results.

The Company's management considers the competition and price pressure that it faces in the short- and long-term by focusing on expanding the breadth, depth, ease of use and quality of the technologies, features, functionality and integrated multiphysics capabilities of its software products as compared to its competitors; investing in research and development to develop new and innovative products and increase the capabilities of its existing products; supplying new products and services; focusing on customer needs, training, consulting and support; and enhancing its distribution channels. From time to time, the Company also considers acquisitions to supplement its global engineering talent, product offerings and distribution channels.

### Geographic Trends

In North America, the Company's performance was primarily driven by the aerospace and defense, automotive, automotive electronics and mobile electronics industries. This enabled North America to deliver 9% constant currency revenue growth for the twelve months ended December 31, 2014. Electronics, efficiency and emissions continue to be the major trends driving technology investments in the automotive and ground transportation industries. In addition, the Company continued to see increased interest and investment in high-performance computing across the Company's customer base to accelerate workflows, systems engineering and smart product initiatives across multiple industries. The Company's sales hiring, sales pipeline building and customer engagement activities in North America remain strong, as demand for innovation continues to drive simulation investments across a broad array of industries. Despite ongoing economic and geo-political challenges, Europe delivered 7% constant currency revenue growth for the twelve months ended December 31, 2014. From an industry perspective, the Company experienced growth from various chemicals and metals companies, which are focusing on energy efficiency, sustainability, emissions controls and developing engineered materials. The Company's sales hiring and pipeline-building activities continued to progress, and solid customer renewal rates in Europe remained intact.

The Company's General International Area was the Company's strongest region with revenue growth of 13% in constant currency for the twelve months ended December 31, 2014. Investments by chemicals and metals, commercial aerospace, networking equipment, wireless, power electronics and smart medical device companies drove the performance. Throughout the year, the Company continued to focus and make progress on sales leadership and internal sales improvement initiatives.

### Note About Forward-Looking Statements

The following discussion should be read in conjunction with the audited consolidated financial statements and notes thereto included elsewhere in this Annual Report on Form 10-K. The Company's discussion and analysis of its financial condition and results of operations are based upon the Company's consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America ("GAAP"). The preparation of these financial statements requires the Company to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. On an ongoing basis, the Company evaluates its estimates, including those related to fair value of stock, bad debts, contract revenue, valuation of goodwill, valuation of intangible assets, income taxes, and contingencies and litigation. The Company bases its estimates on historical experience, market experience, estimated future cash flows and various other assumptions that management believes are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates.

This Annual Report on Form 10-K contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, including, but not limited to, the following statements, as well as statements that contain such words as "anticipates", "intends", "believes", "plans" and other similar expressions:

- The Company's intentions regarding its hybrid sales and distribution model.

- The Company's intentions related to investments in research and development, particularly as it relates to expanding the capabilities of its flagship products and other products within its broad portfolio of simulation software, the evolution of its ANSYS® Workbench™ platform, integrated multiphysics, expanding its HPC capabilities, an immersive

user interface, robust design and ongoing integration of acquired technology.

The Company's expectations regarding the accelerated development of new and innovative products to the marketplace while lowering design and engineering costs for customers as a result of the SpaceClaim and Reaction Design acquisitions.

•The Company's statements regarding the impact of global economic conditions.

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• The Company's statement regarding increased exposure to volatility of foreign exchange rates.  
 • The Company's expectations regarding the outcome of its service tax audit case.  
 • The Company's expectation that it can renew existing leases as they expire or find alternative facilities without difficulty, as needed.  
 • The Company's assessment of the ultimate liabilities arising from various investigations, claims and legal proceedings.  
 • The Company's statement regarding the strength of the features, functionality and integrated multiphysics capabilities of its software products.  
 • The Company's estimates regarding the expected impact on reported revenue related to the acquisition accounting treatment of deferred revenue.  
 • The Company's expectation that it will continue to make targeted investments in its global sales and marketing organization and its global business infrastructure to enhance major account sales activities and to support its worldwide sales distribution and marketing strategies, and the business in general.  
 • The Company's intention to repatriate previously taxed earnings and to reinvest all other earnings of its non-U.S. subsidiaries.  
 • The Company's plans related to future capital spending.  
 • The sufficiency of existing cash and cash equivalent balances to meet future working capital and capital expenditure requirements.  
 • The Company's belief that the best uses of its excess cash are to invest in the business and repurchase stock in order to both offset dilution and return capital to stockholders in excess of its requirements with the goal of increasing stockholder value.  
 • The Company's intentions related to investments in complementary companies, products, services and technologies.  
 • The Company's expectations regarding future claims related to indemnification obligations.  
 • The Company's estimates regarding total compensation expense associated with granted stock-based awards for future years.  
 • The Company's estimation that it is probable that all remaining payments will be made for contingent consideration related to the EVEN acquisition.  
 • The Company's assessment of its ability to realize deferred tax assets.  
 Except for the service tax audit discussed in Note 19 to the consolidated financial statements included in Part IV, Item 15 of this Annual Report on Form 10-K, the Company's expectation that foreign or state examinations will not result in a material change to the consolidated financial statements.  
 Forward-looking statements should not be unduly relied upon because they involve known and unknown risks, uncertainties and other factors, some of which are beyond the Company's control. The Company's actual results could differ materially from those set forth in the forward-looking statements. Certain factors that might cause such a difference include risks and uncertainties detailed in Item 1A. Risk Factors.

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## Acquisitions

| Date of closing | Company                            | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April 30, 2014  | SpaceClaim Corporation             | SpaceClaim, a leading provider of 3-D modeling technology, was acquired for \$85.0 million. SpaceClaim's software provides customers with a powerful and intuitive 3-D direct modeling solution to author new concepts and then leverage the power of simulation to rapidly iterate on these designs to drive innovation.                                                                                                                                                           |
| January 3, 2014 | Reaction Design                    | Reaction Design, a leading developer of chemistry simulation software, was acquired for \$19.1 million in cash. Reaction Design's solutions enable transportation manufacturers and energy companies to rapidly achieve their clean technology goals by automating the analysis of chemical processes via computer simulation and modeling solutions.                                                                                                                               |
| April 2, 2013   | EVEN - Evolutionary Engineering AG | EVEN, a leading provider of composite analysis and optimization technology relying on cloud computing, was acquired for \$8.1 million. The acquisition strengthens the Company's simulation solutions for composites technology, which has become a standard in manufacturing in a wide range of industries due to its combination of light weight, high strength and outstanding flexibility.                                                                                      |
| August 1, 2012  | Esterel Technologies, S.A.         | Esterel, a leading provider of embedded software simulation solutions for mission critical applications, was acquired for \$58.2 million. Esterel's software enables software and systems engineers to design, simulate and automatically produce certified embedded software, which is the control code built into the electronics in aircraft, rail transportation, automotive, energy systems, medical devices and other industrial products that have central processing units. |

For further information on the Company's business combinations, see Note 3 to the consolidated financial statements included in Part IV, Item 15 of this Annual Report on Form 10-K.

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## Results of Operations

For purposes of the following discussion and analysis, the table below sets forth certain consolidated financial data for the years 2014, 2013 and 2012. The operating results of the Company's acquisitions have been included in the results of operations since their respective acquisition dates.

| (in thousands)                      | Year Ended December 31, |           |            |
|-------------------------------------|-------------------------|-----------|------------|
|                                     | 2014                    | 2013      | 2012       |
| Revenue:                            |                         |           |            |
| Software licenses                   | \$564,502               | \$528,944 | \$501,870  |
| Maintenance and service             | 371,519                 | 332,316   | 296,148    |
| Total revenue                       | 936,021                 | 861,260   | 798,018    |
| Cost of sales:                      |                         |           |            |
| Software licenses                   | 30,607                  | 28,363    | 24,512     |
| Amortization                        | 37,653                  | 38,298    | 40,889     |
| Maintenance and service             | 85,126                  | 80,031    | 74,115     |
| Total cost of sales                 | 153,386                 | 146,692   | 139,516    |
| Gross profit                        | 782,635                 | 714,568   | 658,502    |
| Operating expenses:                 |                         |           |            |
| Selling, general and administrative | 246,376                 | 218,907   | 205,178    |
| Research and development            | 165,421                 | 151,439   | 132,628    |
| Amortization                        | 23,388                  | 22,359    | 26,443     |
| Total operating expenses            | 435,185                 | 392,705   | 364,249    |
| Operating income                    | 347,450                 | 321,863   | 294,253    |
| Interest expense                    | (779)                   | ) (1,169  | ) (2,661 ) |
| Interest income                     | 3,002                   | 2,841     | 3,360      |
| Other expense, net                  | (1,534)                 | ) (1,046  | ) (1,405 ) |
| Income before income tax provision  | 348,139                 | 322,489   | 293,547    |
| Income tax provision                | 93,449                  | 77,162    | 90,064     |
| Net income                          | \$254,690               | \$245,327 | \$203,483  |

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Year Ended December 31, 2014 Compared to Year Ended December 31, 2013

## Revenue:

| (in thousands, except percentages) | Year Ended December 31, |           | Change   |      |
|------------------------------------|-------------------------|-----------|----------|------|
|                                    | 2014                    | 2013      | Amount   | %    |
| Revenue:                           |                         |           |          |      |
| Lease licenses                     | \$318,041               | \$297,658 | \$20,383 | 6.8  |
| Perpetual licenses                 | 246,461                 | 231,286   | 15,175   | 6.6  |
| Software licenses                  | 564,502                 | 528,944   | 35,558   | 6.7  |
| Maintenance                        | 346,698                 | 309,085   | 37,613   | 12.2 |
| Service                            | 24,821                  | 23,231    | 1,590    | 6.8  |
| Maintenance and service            | 371,519                 | 332,316   | 39,203   | 11.8 |
| Total revenue                      | \$936,021               | \$861,260 | \$74,761 | 8.7  |

The Company's revenue increased 8.7% during the year ended December 31, 2014 as compared to the year ended December 31, 2013, including increases in all major revenue categories. The growth was partially influenced by benefits from the Company's continued investment in its global sales and marketing organization. Revenue from lease licenses increased 6.8% as compared to the prior year due primarily to growth in lease license revenue of power analysis and electronics products. Perpetual license revenue, which is derived primarily from new sales, increased 6.6% as compared to the prior year. Annual maintenance contracts that were sold with new perpetual licenses, along with maintenance contracts sold with new perpetual licenses in previous years, contributed to maintenance revenue growth of 12.2%.

With respect to revenue, on average for the year ended December 31, 2014, the U.S. Dollar was 1.6% stronger, when measured against the Company's primary foreign currencies, than for the year ended December 31, 2013. The net overall strengthening resulted in decreased revenue of \$7.6 million during the year ended December 31, 2014 as compared to the year ended December 31, 2013. The impact on revenue was primarily driven by \$9.8 million of adverse impact due to a weakening Japanese Yen, partially offset by \$1.9 million of favorable impact due to a strengthening British Pound. The net overall strengthening of the U.S. Dollar also resulted in decreased operating income of \$5.1 million during the year ended December 31, 2014 as compared to the year ended December 31, 2013. A substantial portion of the Company's license and maintenance revenue is derived from annual lease and maintenance contracts. These contracts are generally renewed on an annual basis and typically have a high rate of customer renewal. In addition to the recurring revenue base associated with these contracts, a majority of customers purchasing new perpetual licenses also purchase related annual maintenance contracts. As a result of the significant recurring revenue base, the Company's license and maintenance revenue growth rate in any period does not necessarily correlate to the growth rate of new license and maintenance contracts sold during that period. To the extent the rate of customer renewal for lease and maintenance contracts is high, incremental lease contracts, and maintenance contracts sold with new perpetual licenses, will result in license and maintenance revenue growth. Conversely, if the rate of renewal for these contracts is adversely affected by economic or other factors, the Company's license and maintenance growth will be adversely affected over the term that the revenue for those contracts would have otherwise been recognized. International and domestic revenues, as a percentage of total revenue, were 65.8% and 34.2%, respectively, during the year ended December 31, 2014, and 66.1% and 33.9%, respectively, during the year ended December 31, 2013. The Company derived 24.9% and 25.3% of its total revenue through the indirect sales channel for the years ended December 31, 2014 and 2013, respectively.

In valuing deferred revenue on the balance sheets of the Company's recent acquisitions as of their respective acquisition dates, the Company applied the fair value provisions applicable to the accounting for business combinations, resulting in a reduction of deferred revenue as compared to its historical carrying amount. As a result, the Company's post-acquisition revenue will be less than the sum of what would have otherwise been reported by ANSYS and its subsidiaries absent the acquisitions. The impact on reported revenue for the year ended December 31, 2014 was \$5.4 million. The expected impact on reported revenue is \$1.2 million for the year ending December 31, 2015.



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## Cost of Sales and Gross Profit:

| (in thousands, except percentages) | Year Ended December 31, 2014 |              | 2013      |              | Change   |       |
|------------------------------------|------------------------------|--------------|-----------|--------------|----------|-------|
|                                    | Amount                       | % of Revenue | Amount    | % of Revenue | Amount   | %     |
| Cost of sales:                     |                              |              |           |              |          |       |
| Software licenses                  | \$30,607                     | 3.3          | \$28,363  | 3.3          | \$2,244  | 7.9   |
| Amortization                       | 37,653                       | 4.0          | 38,298    | 4.4          | (645)    | (1.7) |
| Maintenance and service            | 85,126                       | 9.1          | 80,031    | 9.3          | 5,095    | 6.4   |
| Total cost of sales                | 153,386                      | 16.4         | 146,692   | 17.0         | 6,694    | 4.6   |
| Gross profit                       | \$782,635                    | 83.6         | \$714,568 | 83.0         | \$68,067 | 9.5   |

Software Licenses: The increase in costs of software licenses was primarily due to the following:

• SpaceClaim-related costs of software licenses of \$0.8 million for the period from the acquisition date (April 30, 2014) through December 31, 2014.

• Increased salaries of \$0.6 million.

Amortization: The decrease in amortization expense was primarily due to a net decrease in amortization of acquired technology, partially offset by an increase in trade name amortization.

Maintenance and Service: The increase in maintenance and service costs was primarily due to the following:

• Increased salaries of \$3.0 million.

• Increased third-party technical support of \$1.0 million.

The improvement in gross profit was a result of the increase in revenue offset by a smaller increase in related cost of sales.



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## Operating Expenses:

| (in thousands, except percentages)  | Year Ended December 31, 2014 |              | 2013      |              | Change   |      |
|-------------------------------------|------------------------------|--------------|-----------|--------------|----------|------|
|                                     | Amount                       | % of Revenue | Amount    | % of Revenue | Amount   | %    |
| Operating expenses:                 |                              |              |           |              |          |      |
| Selling, general and administrative | \$246,376                    | 26.3         | \$218,907 | 25.4         | \$27,469 | 12.5 |
| Research and development            | 165,421                      | 17.7         | 151,439   | 17.6         | 13,982   | 9.2  |
| Amortization                        | 23,388                       | 2.5          | 22,359    | 2.6          | 1,029    | 4.6  |
| Total operating expenses            | \$435,185                    | 46.5         | \$392,705 | 45.6         | \$42,480 | 10.8 |

Selling, General and Administrative: The increase in selling, general and administrative costs was primarily due to the following:

Increased salaries, incentive compensation and other headcount-related costs of \$9.8 million, primarily due to an increase in headcount.

SpaceClaim-related selling, general and administrative costs of \$4.6 million for the period from the acquisition date (April 30, 2014) through December 31, 2014.

Increased severance costs of \$3.2 million.

Reaction Design-related selling, general and administrative costs of \$2.3 million for the period from the acquisition date (January 3, 2014) through December 31, 2014.

Increased third-party commissions of \$2.1 million.

The Company anticipates that it will continue to make targeted investments in its global sales and marketing organization and its global business infrastructure to enhance major account sales activities and to support its worldwide sales distribution and marketing strategies, and the business in general.

Research and Development: The increase in research and development costs was primarily due to the following:

Increased salaries and other headcount-related costs of \$5.9 million, primarily due to an increase in headcount.

SpaceClaim-related research and development costs of \$2.3 million for the period from the acquisition date (April 30, 2014) through December 31, 2014.

Reaction Design-related research and development costs of \$2.3 million for the period from the acquisition date (January 3, 2014) through December 31, 2014.

Increased stock-based compensation of \$1.2 million.

The Company has traditionally invested significant resources in research and development activities and intends to continue to make investments in this area, particularly as it relates to expanding the capabilities of its flagship products and other products within its broad portfolio of simulation software, the evolution of its ANSYS® Workbench™ platform, integrated multiphysics, expanding its HPC capabilities, an immersive user interface, robust design and ongoing integration of acquired technology.

Amortization: The increase in amortization expense was primarily due to a net increase in amortization of customer lists, partially offset by a net decrease in amortization of contract backlog.

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Interest Expense: The Company's interest expense consists of the following:

|                                      | Year Ended December 31, |         |
|--------------------------------------|-------------------------|---------|
| (in thousands)                       | 2014                    | 2013    |
| Discounted obligations               | \$628                   | \$722   |
| Term loan                            | —                       | 230     |
| Amortization of debt financing costs | —                       | 149     |
| Other                                | 151                     | 68      |
| Total interest expense               | \$779                   | \$1,169 |

Interest Income: Interest income for the year ended December 31, 2014 was \$3.0 million as compared to \$2.8 million during the year ended December 31, 2013. Interest income increased as a result of an increase in the Company's average invested cash balances.

Other Expense, net: The Company's other expense consists of the following:

|                              | Year Ended December 31, |           |
|------------------------------|-------------------------|-----------|
| (in thousands)               | 2014                    | 2013      |
| Foreign currency losses, net | \$(1,649)               | \$(1,115) |
| Other income, net            | 115                     | 69        |
| Total other expense, net     | \$(1,534)               | \$(1,046) |

Income Tax Provision: The Company recorded income tax expense of \$93.4 million and had income before income taxes of \$348.1 million for the year ended December 31, 2014, representing an effective tax rate of 26.8%. During the year ended December 31, 2013, the Company recorded income tax expense of \$77.2 million and had income before income taxes of \$322.5 million, representing an effective tax rate of 23.9%.

In December 2013, the Company received notice from the IRS that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010. An \$11.0 million tax benefit was recognized in the Company's 2013 financial results as the Company had effectively settled uncertainty regarding the realization of refund claims filed in connection with the 2009 and 2010 returns.

In the U.S., which is the largest jurisdiction where the Company receives such a tax credit, the availability of the research and development credit expired at the end of the 2011 tax year. In January 2013, the U.S. Congress passed legislation that reinstated the research and development credit retroactive to 2012. The income tax provision for the year ended December 31, 2013 includes approximately \$2.3 million related to the reinstated research and development credit for 2012 activity. The research and development credit also expired at the end of the 2013 tax year, but the U.S. Congress reinstated the credit in December 2014 for the 2014 tax year.

The increase in the effective tax rate from the prior year is primarily due to the release of an uncertain tax position and the reinstatement of the U.S. research and development credit mentioned above impacting the prior year rate. When compared to the federal and state combined statutory rate, the effective tax rates for the years ended December 31, 2014 and 2013 were favorably impacted by the domestic manufacturing deduction and tax benefits associated with the merger of the Company's Japan subsidiaries in 2010. The rates were also favorably impacted by the recurring item of lower statutory tax rates in many of the Company's foreign jurisdictions. The relative amount of income earned in foreign jurisdictions is expected to be fairly consistent in the near term.

Net Income: The Company's net income for the year ended December 31, 2014 was \$254.7 million as compared to net income of \$245.3 million for the year ended December 31, 2013. Diluted earnings per share was \$2.70 for the year ended December 31, 2014 and \$2.58 for the year ended December 31, 2013. The weighted average shares used in computing diluted earnings per share were 94.2 million and 95.1 million for the years ended December 31, 2014 and 2013, respectively.

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Year Ended December 31, 2013 Compared to Year Ended December 31, 2012

## Revenue:

| (in thousands, except percentages) | Year Ended December 31, |           | Change<br>Amount | %    |
|------------------------------------|-------------------------|-----------|------------------|------|
|                                    | 2013                    | 2012      |                  |      |
| Revenue:                           |                         |           |                  |      |
| Lease licenses                     | \$297,658               | \$279,283 | \$18,375         | 6.6  |
| Perpetual licenses                 | 231,286                 | 222,587   | 8,699            | 3.9  |
| Software licenses                  | 528,944                 | 501,870   | 27,074           | 5.4  |
| Maintenance                        | 309,085                 | 275,498   | 33,587           | 12.2 |
| Service                            | 23,231                  | 20,650    | 2,581            | 12.5 |
| Maintenance and service            | 332,316                 | 296,148   | 36,168           | 12.2 |
| Total revenue                      | \$861,260               | \$798,018 | \$63,242         | 7.9  |

The Company's revenue increased 7.9% in 2013 as compared to 2012, including increases in all major revenue categories. The Company's revenue included Esterel operations for the full year in 2013 of \$18.8 million as compared to five months in 2012 of \$3.3 million. The growth was partially influenced by benefits from the Company's continued investment in its global sales and marketing organization. Annual maintenance contracts that were sold with new perpetual licenses, along with maintenance contracts sold with new perpetual licenses in previous years, contributed to maintenance revenue growth of 12.2%. Revenue from lease licenses increased 6.6% as compared to the prior year due to an increase in power-analysis-related lease license revenue and growth in sales of other lease licenses. Perpetual license revenue, which is derived entirely from new sales during the period, increased 3.9% as compared to the prior year, due to increased perpetual license sales across most product lines, as well as a full year of Esterel activity in 2013 as compared to five months in 2012. Service revenue increased 12.5% as compared to the prior year due to an increase in engineering consulting projects.

With respect to revenue, on average for the year ended December 31, 2013, the U.S. Dollar was 4.0% stronger, when measured against the Company's primary foreign currencies, than for the year ended December 31, 2012. The net overall strengthening, primarily related to the Japanese Yen, resulted in decreased revenue and operating income during 2013, as compared to 2012, of \$17.6 million and \$12.2 million, respectively.

International and domestic revenues, as a percentage of total revenue, were 66.1% and 33.9%, respectively, during the year ended December 31, 2013, and 66.7% and 33.3%, respectively, during the year ended December 31, 2012. The Company derived 25.3% and 26.0% of its total revenue through the indirect sales channel for the years ended December 31, 2013 and 2012, respectively.

In valuing deferred revenue on the Esterel and Apache Design, Inc. ("Apache") balance sheets as of their respective acquisition dates, the Company applied the fair value provisions applicable to the accounting for business combinations, resulting in lower amounts of revenue than Esterel and Apache would have recognized absent the acquisitions. The impact on reported revenue for the year ended December 31, 2013 was \$4.6 million.

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## Cost of Sales and Gross Profit:

| (in thousands, except percentages) | Year Ended December 31, 2013 |              | 2012      |              | Change   |       |
|------------------------------------|------------------------------|--------------|-----------|--------------|----------|-------|
|                                    | Amount                       | % of Revenue | Amount    | % of Revenue | Amount   | %     |
| Cost of sales:                     |                              |              |           |              |          |       |
| Software licenses                  | \$28,363                     | 3.3          | \$24,512  | 3.1          | \$3,851  | 15.7  |
| Amortization                       | 38,298                       | 4.4          | 40,889    | 5.1          | (2,591)  | (6.3) |
| Maintenance and service            | 80,031                       | 9.3          | 74,115    | 9.3          | 5,916    | 8.0   |
| Total cost of sales                | 146,692                      | 17.0         | 139,516   | 17.5         | 7,176    | 5.1   |
| Gross profit                       | \$714,568                    | 83.0         | \$658,502 | 82.5         | \$56,066 | 8.5   |

Software Licenses: The increase in costs of software licenses was primarily due to the following:

• Increased salaries and incentive compensation of \$2.2 million.

• Increased third-party royalties of \$0.9 million.

• Increased Esterel-related costs of \$0.7 million, primarily as a result of a full year of Esterel activity in 2013 as compared to five months of activity in 2012.

Amortization: The decrease in amortization expense was primarily due to a net decrease in amortization of acquired technology.

Maintenance and Service: The increase in maintenance and service costs was primarily due to the following:

• Increased salaries and headcount-related costs of \$2.6 million.

• Increased third-party technical support of \$1.4 million.

• Increased Esterel-related costs of \$0.6 million, primarily as a result of a full year of Esterel activity in 2013 as compared to five months of activity in 2012.

• Increased depreciation expense of \$0.5 million.

The improvement in gross profit was a result of the increase in revenue offset by a smaller increase in related cost of sales.

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## Operating Expenses:

| (in thousands, except percentages)  | Year Ended December 31, 2013 |              | 2012      |              | Change   |        |
|-------------------------------------|------------------------------|--------------|-----------|--------------|----------|--------|
|                                     | Amount                       | % of Revenue | Amount    | % of Revenue | Amount   | %      |
| Operating expenses:                 |                              |              |           |              |          |        |
| Selling, general and administrative | \$218,907                    | 25.4         | \$205,178 | 25.7         | \$13,729 | 6.7    |
| Research and development            | 151,439                      | 17.6         | 132,628   | 16.6         | 18,811   | 14.2   |
| Amortization                        | 22,359                       | 2.6          | 26,443    | 3.3          | (4,084)  | (15.4) |
| Total operating expenses            | \$392,705                    | 45.6         | \$364,249 | 45.6         | \$28,456 | 7.8    |

Selling, General and Administrative: The increase in selling, general and administrative costs was primarily due to the following:

• Increased salaries of \$4.9 million, primarily due to an increase in headcount.

• Increased Esterel-related expenses of \$4.5 million, primarily as a result of a full year of Esterel activity in 2013 as compared to five months of activity in 2012.

• Increased stock-based compensation of \$1.6 million.

Research and Development: The increase in research and development costs was primarily due to the following:

• Increased salaries, incentive compensation and other headcount-related costs of \$11.0 million, primarily due to an increase in headcount.

• Increased Esterel-related expenses of \$3.1 million, primarily as a result of a full year of Esterel activity in 2013 as compared to five months of activity in 2012.

• Increased facilities and IT-related maintenance costs of \$1.7 million.

• Increased stock-based compensation of \$1.4 million.

• EVEN-related research and development costs of \$1.4 million for the period from the acquisition date (April 2, 2013) through December 31, 2013.

Amortization: The decrease in amortization expense was primarily due to a net decrease in amortization of acquired intangible assets, including contract backlog and customer lists.

Interest Expense: The Company's interest expense consists of the following:

| (in thousands)                       | Year Ended December 31, |         |
|--------------------------------------|-------------------------|---------|
|                                      | 2013                    | 2012    |
| Discounted obligations               | \$722                   | \$546   |
| Term loan                            | 230                     | 1,342   |
| Amortization of debt financing costs | 149                     | 698     |
| Other                                | 68                      | 75      |
| Total interest expense               | \$1,169                 | \$2,661 |

Interest Income: Interest income for the year ended December 31, 2013 was \$2.8 million as compared to \$3.4 million during the year ended December 31, 2012. Interest income decreased as a result of a decrease in the average rate of return on invested cash balances.

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Other Expense, net: The Company's other expense consists of the following:

|                              | Year Ended December 31, |            |
|------------------------------|-------------------------|------------|
| (in thousands)               | 2013                    | 2012       |
| Foreign currency losses, net | \$(1,115 )              | \$(1,401 ) |
| Other income (expense), net  | 69                      | (4 )       |
| Total other expense, net     | \$(1,046 )              | \$(1,405 ) |

**Income Tax Provision:** The Company recorded income tax expense of \$77.2 million and had income before income taxes of \$322.5 million for the year ended December 31, 2013, representing an effective tax rate of 23.9%. During the year ended December 31, 2012, the Company recorded income tax expense of \$90.1 million and had income before income taxes of \$293.5 million, representing an effective tax rate of 30.7%.

In December 2013, the Company received notice from the IRS that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010. An \$11.0 million tax benefit was recognized in the Company's 2013 financial results as the Company had effectively settled uncertainty regarding the realization of refund claims filed in connection with the 2009 and 2010 returns.

In the U.S., which is the largest jurisdiction where the Company receives such a tax credit, the availability of the research and development credit expired at the end of the 2011 tax year. In January 2013, the U.S. Congress passed legislation that reinstated the research and development credit retroactive to 2012. The income tax provision for the year ended December 31, 2013 includes approximately \$2.3 million related to the reinstated research and development credit for 2012 activity.

The decrease in the effective tax rate from the prior year is primarily due to the release of an uncertain tax position mentioned above, the reinstatement of the U.S. research and development credit mentioned above, and cash repatriation activities. When compared to the federal and state combined statutory rate, the effective tax rates for the years ended December 31, 2013 and 2012 were favorably impacted by lower statutory tax rates in many of the Company's foreign jurisdictions, the domestic manufacturing deduction and tax benefits associated with the merger of the Company's Japan subsidiaries in 2010.

**Net Income:** The Company's net income for the year ended December 31, 2013 was \$245.3 million as compared to net income of \$203.5 million for the year ended December 31, 2012. Diluted earnings per share was \$2.58 for the year ended December 31, 2013 and \$2.14 for the year ended December 31, 2012. The weighted average shares used in computing diluted earnings per share were 95.1 million and 95.0 million for the years ended December 31, 2013 and 2012, respectively.

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## Non-GAAP Results

The Company provides non-GAAP revenue, non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share as supplemental measures to GAAP measures regarding the Company's operational performance. These financial measures exclude the impact of certain items and, therefore, have not been calculated in accordance with GAAP. A detailed explanation and a reconciliation of each non-GAAP financial measure to its most comparable GAAP financial measure are described below.

|                                                       | Year Ended December 31,<br>2014 |             |                     | 2013           |             |                     |
|-------------------------------------------------------|---------------------------------|-------------|---------------------|----------------|-------------|---------------------|
|                                                       | As<br>Reported                  | Adjustments | Non-GAAP<br>Results | As<br>Reported | Adjustments | Non-GAAP<br>Results |
| (in thousands, except percentages and per share data) |                                 |             |                     |                |             |                     |
| Total revenue                                         | \$936,021                       | \$ 5,421    | (1) \$941,442       | \$861,260      | \$ 4,632    | (4) \$865,892       |
| Operating income                                      | 347,450                         | 104,403     | (2) 451,853         | 321,863        | 101,232     | (5) 423,095         |
| Operating profit margin                               | 37.1 %                          |             | 48.0 %              | 37.4 %         |             | 48.9 %              |
| Net income                                            | \$254,690                       | \$ 68,719   | (3) \$323,409       | \$245,327      | \$ 66,197   | (6) \$311,524       |
| Earnings per share – diluted:                         |                                 |             |                     |                |             |                     |
| Diluted earnings per share                            | \$2.70                          |             | \$3.43              | \$2.58         |             | \$3.27              |
| Weighted average shares – diluted                     | 94,194                          |             | 94,194              | 95,139         |             | 95,139              |

(1) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with accounting for deferred revenue in business combinations.

(2) Amount represents \$61.0 million of amortization expense associated with intangible assets acquired in business combinations, \$36.9 million of stock-based compensation expense, the \$5.4 million adjustment to revenue as reflected in (1) above and \$1.1 million of transaction expenses related to business combinations.

(3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$35.7 million.

(4) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with accounting for deferred revenue in business combinations.

(5) Amount represents \$60.7 million of amortization expense associated with intangible assets acquired in business combinations, \$35.3 million of stock-based compensation expense, the \$4.6 million adjustment to revenue as reflected in (4) above and \$0.6 million of transaction expenses related to business combinations.

(6) Amount represents the impact of the adjustments to operating income referred to in (5) above, adjusted for the related income tax impact of \$35.0 million.

Note: The 2013 GAAP and non-GAAP net income and earnings per share data reflected above include \$11.0 million of incremental tax benefits, or \$0.12 per diluted share, related to the notification received from the IRS that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010, thus effectively settling the uncertainty regarding refund claims filed in connection with those returns.

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| (in thousands, except percentages and per share data) | Year Ended December 31, 2013 |             |                  | 2012        |             |                  |
|-------------------------------------------------------|------------------------------|-------------|------------------|-------------|-------------|------------------|
|                                                       | As Reported                  | Adjustments | Non-GAAP Results | As Reported | Adjustments | Non-GAAP Results |
| Total revenue                                         | \$861,260                    | \$4,632     | (1) \$865,892    | \$798,018   | \$9,636     | (4) \$807,654    |
| Operating income                                      | 321,863                      | 101,232     | (2) 423,095      | 294,253     | 110,290     | (5) 404,543      |
| Operating profit margin                               | 37.4 %                       |             | 48.9 %           | 36.9 %      |             | 50.1 %           |
| Net income                                            | \$245,327                    | \$66,197    | (3) \$311,524    | \$203,483   | \$73,304    | (6) \$276,787    |
| Earnings per share – diluted:                         |                              |             |                  |             |             |                  |
| Diluted earnings per share                            | \$2.58                       |             | \$3.27           | \$2.14      |             | \$2.91           |
| Weighted average shares – diluted                     | 95,139                       |             | 95,139           | 94,954      |             | 94,954           |

(1) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with accounting for deferred revenue in business combinations.

(2) Amount represents \$60.7 million of amortization expense associated with intangible assets acquired in business combinations, \$35.3 million of stock-based compensation expense, the \$4.6 million adjustment to revenue as reflected in (1) above and \$0.6 million of transaction expenses related to business combinations.

(3) Amount represents the impact of the adjustments to operating income referred to in (2) above, adjusted for the related income tax impact of \$35.0 million.

(4) Amount represents the revenue not reported during the period as a result of the acquisition accounting adjustment associated with accounting for deferred revenue in business combinations.

(5) Amount represents \$67.3 million of amortization expense associated with intangible assets acquired in business combinations, \$32.4 million of stock-based compensation expense, the \$9.6 million adjustment to revenue as reflected in (4) above and \$0.9 million of transaction expenses related to the Esterel acquisition.

(6) Amount represents the impact of the adjustments to operating income referred to in (5) above, adjusted for the related income tax impact of \$37.0 million.

Note: The 2013 GAAP and non-GAAP net income and earnings per share data reflected above include \$11.0 million of incremental tax benefits, or \$0.12 per diluted share, related to the notification received from the IRS that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010, thus effectively settling the uncertainty regarding refund claims filed in connection with those returns.

**Non-GAAP Measures**

Management uses non-GAAP financial measures (a) to evaluate the Company's historical and prospective financial performance as well as its performance relative to its competitors, (b) to set internal sales targets and spending budgets, (c) to allocate resources, (d) to measure operational profitability and the accuracy of forecasting, (e) to assess financial discipline over operational expenditures and (f) as an important factor in determining variable compensation for management and its employees. In addition, many financial analysts that follow the Company focus on and publish both historical results and future projections based on non-GAAP financial measures. The Company believes that it is in the best interest of its investors to provide this information to analysts so that they accurately report the non-GAAP financial information. Moreover, investors have historically requested and the Company has historically reported these non-GAAP financial measures as a means of providing consistent and comparable information with past reports of financial results.

While management believes that these non-GAAP financial measures provide useful supplemental information to investors, there are limitations associated with the use of these non-GAAP financial measures. These non-GAAP financial measures are not prepared in accordance with GAAP, are not reported by all of the Company's competitors and may not be directly comparable to similarly titled measures of the Company's competitors due to potential differences in the exact method of calculation. The Company compensates for these limitations by using these non-GAAP financial measures as supplements to GAAP financial measures and by reviewing the reconciliations of the non-GAAP financial measures to their most comparable GAAP financial measures.





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The adjustments to these non-GAAP financial measures, and the basis for such adjustments, are outlined below:

**Acquisition accounting for deferred revenue and its related tax impact.** Historically, the Company has consummated acquisitions in order to support its strategic and other business objectives. In accordance with the fair value provisions applicable to the accounting for business combinations, acquired deferred revenue is often recorded on the opening balance sheet at an amount that is lower than the historical carrying value. Although this purchase accounting requirement has no impact on the Company's business or cash flow, it adversely impacts the Company's reported GAAP revenue in the reporting periods following an acquisition. In order to provide investors with financial information that facilitates comparison of both historical and future results, the Company provides non-GAAP financial measures which exclude the impact of the acquisition accounting adjustment. The Company believes that this non-GAAP financial adjustment is useful to investors because it allows investors to (a) evaluate the effectiveness of the methodology and information used by management in its financial and operational decision-making, and (b) compare past and future reports of financial results of the Company as the revenue reduction related to acquired deferred revenue will not recur when related annual lease licenses and software maintenance contracts are renewed in future periods.

**Amortization of intangibles from acquisitions and its related tax impact.** The Company incurs amortization of intangibles, included in its GAAP presentation of amortization expense, related to various acquisitions it has made in recent years. Management excludes these expenses and their related tax impact for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company because these costs are fixed at the time of an acquisition, are then amortized over a period of several years after the acquisition and generally cannot be changed or influenced by management after the acquisition. Accordingly, management does not consider these expenses for purposes of evaluating the performance of the Company during the applicable time period after the acquisition, and it excludes such expenses when making decisions to allocate resources. The Company believes that these non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the effectiveness of the methodology and information used by management in its financial and operational decision-making, and (b) compare past reports of financial results of the Company as the Company has historically reported these non-GAAP financial measures.

**Stock-based compensation expense and its related tax impact.** The Company incurs expense related to stock-based compensation included in its GAAP presentation of cost of software licenses; cost of maintenance and service; research and development expense and selling, general and administrative expense. Although stock-based compensation is an expense of the Company and viewed as a form of compensation, management excludes these expenses for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company. Specifically, the Company excludes stock-based compensation during its annual budgeting process and its quarterly and annual assessments of the Company's and management's performance. The annual budgeting process is the primary mechanism whereby the Company allocates resources to various initiatives and operational requirements. Additionally, the annual review by the board of directors during which it compares the Company's historical business model and profitability to the planned business model and profitability for the forthcoming year excludes the impact of stock-based compensation. In evaluating the performance of senior management and department managers, charges related to stock-based compensation are excluded from expenditure and profitability results. In fact, the Company records stock-based compensation expense into a stand-alone cost center for which no single operational manager is responsible or accountable. In this way, management is able to review, on a period-to-period basis, each manager's performance and assess financial discipline over operational expenditures without the effect of stock-based compensation. The Company believes that these non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the Company's operating results and the effectiveness of the methodology used by management to review the Company's operating results, and (b) review historical comparability in the Company's financial reporting as well as comparability with competitors' operating results.

**Transaction costs related to business combinations.** The Company incurs expenses for professional services rendered in connection with business combinations, which are included in its GAAP presentation of selling, general and

administrative expense. These expenses are generally not tax-deductible. Management excludes these acquisition-related transaction expenses for the purpose of calculating non-GAAP operating income, non-GAAP operating profit margin, non-GAAP net income and non-GAAP diluted earnings per share when it evaluates the continuing operational performance of the Company, as it generally would not have otherwise incurred these expenses in the periods presented as a part of its continuing operations. The Company believes that these non-GAAP financial measures are useful to investors because they allow investors to (a) evaluate the Company's operating results and the effectiveness of the methodology used by management to review the Company's operating results, and (b) review historical comparability in the Company's financial reporting as well as comparability with competitors' operating results.

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Non-GAAP financial measures are not in accordance with, or an alternative for, GAAP. The Company's non-GAAP financial measures are not meant to be considered in isolation or as a substitute for comparable GAAP financial measures, and should be read only in conjunction with the Company's consolidated financial statements prepared in accordance with GAAP.

The Company has provided a reconciliation of the non-GAAP financial measures to the most directly comparable GAAP financial measures as listed below:

| GAAP Reporting Measure     | Non-GAAP Reporting Measure          |
|----------------------------|-------------------------------------|
| Revenue                    | Non-GAAP Revenue                    |
| Operating Income           | Non-GAAP Operating Income           |
| Operating Profit Margin    | Non-GAAP Operating Profit Margin    |
| Net Income                 | Non-GAAP Net Income                 |
| Diluted Earnings Per Share | Non-GAAP Diluted Earnings Per Share |

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## Liquidity and Capital Resources

| (in thousands)                                    | As of December 31, |           | Change   |     |   |
|---------------------------------------------------|--------------------|-----------|----------|-----|---|
|                                                   | 2014               | 2013      | Amount   | %   |   |
| Cash, cash equivalents and short-term investments | \$788,778          | \$742,986 | \$45,792 | 6.2 | % |
| Working capital                                   | \$645,394          | \$627,165 | \$18,229 | 2.9 | % |

Cash, cash equivalents and short-term investments

Cash and cash equivalents consist primarily of highly liquid investments such as money market mutual funds and deposits held at major banks. Short-term investments consist primarily of deposits held by certain foreign subsidiaries of the Company with original maturities of three months to one year. The following table presents the Company's foreign and domestic holdings of cash, cash equivalents and short-term investments:

| (in thousands) | As of December 31, |            |   | 2013      |            |   |
|----------------|--------------------|------------|---|-----------|------------|---|
|                | 2014               | % of Total |   |           | % of Total |   |
| Domestic       | \$556,328          | 70.5       | % | \$530,680 | 71.4       | % |
| Foreign        | 232,450            | 29.5       | % | 212,306   | 28.6       | % |
| Total          | \$788,778          |            |   | \$742,986 |            |   |

If the foreign balances were repatriated to the U.S., they would be subject to domestic tax, resulting in a tax obligation in the period of repatriation. In general, it is the practice and intention of the Company to repatriate previously taxed earnings and to reinvest all other earnings of its non-U.S. subsidiaries. The amount of cash, cash equivalents and short-term investments held by foreign subsidiaries is subject to translation adjustments caused by changes in foreign currency exchange rates as of the end of each respective reporting period, the offset to which is recorded in accumulated other comprehensive income on the Company's consolidated balance sheet.

## Cash Flows from Operating Activities

| (in thousands)                            | Year Ended December 31, |           |           | Change        |               |
|-------------------------------------------|-------------------------|-----------|-----------|---------------|---------------|
|                                           | 2014                    | 2013      | 2012      | 2014 vs. 2013 | 2013 vs. 2012 |
| Net cash provided by operating activities | \$385,307               | \$332,983 | \$298,415 | \$52,324      | \$34,568      |

Fiscal year 2014 as compared to fiscal year 2013

Cash flows from operations increased during the current fiscal year due to increased net cash flows from operating assets and liabilities of \$38.1 million, including a \$26.8 million refund related to the Company's 2009 and 2010 federal income tax returns, and increased net income (net of non-cash operating adjustments) of \$14.2 million.

Fiscal year 2013 as compared to fiscal year 2012

Cash flows from operations increased during the prior fiscal year due to increased net income (net of non-cash operating adjustments) of \$39.3 million and decreased net cash flows from operating assets and liabilities of \$4.8 million.

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## Cash Flows from Investing Activities

| (in thousands)                        | Year Ended December 31, |             |             | Change           |               |
|---------------------------------------|-------------------------|-------------|-------------|------------------|---------------|
|                                       | 2014                    | 2013        | 2012        | 2014 vs.<br>2013 | 2013 vs. 2012 |
| Net cash used in investing activities | \$(129,270 )            | \$(33,177 ) | \$(68,956 ) | \$(96,093 )      | \$35,779      |

Fiscal year 2014 as compared to fiscal year 2013

Cash used in investing activities increased during the current fiscal year due primarily to increased acquisition-related cash outlays of \$98.8 million related to the acquisitions of SpaceClaim and Reaction Design as discussed below, partially offset by decreased capital spending of \$2.8 million. The Company currently plans capital spending of \$25 million to \$30 million during fiscal year 2015 as compared to \$26.0 million that was spent in 2014. The level of spending will be dependent upon various factors, including growth of the business and general economic conditions.

Fiscal year 2013 as compared to fiscal year 2012

Cash used in investing activities decreased during the prior fiscal year due primarily to decreased acquisition-related cash outlays of \$40.9 million and increased capital spending of \$4.9 million.

## Cash Flows from Financing Activities:

| (in thousands)                        | Year Ended December 31, |              |              | Change           |               |
|---------------------------------------|-------------------------|--------------|--------------|------------------|---------------|
|                                       | 2014                    | 2013         | 2012         | 2014 vs.<br>2013 | 2013 vs. 2012 |
| Net cash used in financing activities | \$(185,642 )            | \$(129,759 ) | \$(124,846 ) | \$(55,883 )      | \$(4,913 )    |

Fiscal year 2014 as compared to fiscal year 2013

Cash used in financing activities increased during the current fiscal year due primarily to increased treasury stock repurchases of \$117.7 million, partially offset by decreased principal payments on long-term debt of \$53.1 million. The Company paid the outstanding balance of its term loan at maturity on July 31, 2013.

Fiscal year 2013 as compared to fiscal year 2012

Cash used in financing activities increased during the prior fiscal year due primarily to increased treasury stock repurchases of \$20.7 million, decreased excess tax benefits from stock option exercises of \$3.9 million and restricted stock withholding taxes paid in lieu of issued shares of \$4.3 million, partially offset by decreased principal payments on long-term debt of \$21.3 million.

## Other Cash Flow Information

On February 3, 2015, the Company acquired the assets of Newmerical Technologies International ("NTI"), a leading developer of in-flight icing simulation software, for a purchase price of approximately \$10.5 million in cash. The acquisition will be accounted for as a business combination. The operating results of NTI will be included in the Company's consolidated financial statements from the date of acquisition and, accordingly, NTI's operating results are not included in the financial results presented in this annual report on Form 10-K.

On April 30, 2014, the Company completed the acquisition of SpaceClaim, a leading provider of 3-D modeling technology. Under the terms of the agreement, ANSYS acquired SpaceClaim for a purchase price of \$85.0 million, which was paid almost entirely in cash. The operating results of SpaceClaim have been included in the Company's consolidated financial statements since the date of acquisition.

On January 3, 2014, the Company completed the acquisition of Reaction Design, a leading developer of chemistry simulation software, for a purchase price of \$19.1 million in cash. The operating results of Reaction Design are included in the Company's consolidated financial statements from the date of acquisition.

The Company believes that existing cash and cash equivalent balances of \$788.1 million, together with cash generated from operations, will be sufficient to meet the Company's working capital and capital expenditure requirements through the next twelve months. The Company's cash requirements in the future may also be financed through additional equity or debt financings. There can be no assurance that such financings can be obtained on favorable terms, if at all.

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Under the Company's stock repurchase program, the Company repurchased shares as follows:

|                                                  | Year Ended December 31, |           |           |
|--------------------------------------------------|-------------------------|-----------|-----------|
| (in thousands, except shares and per share data) | 2014                    | 2013      | 2012      |
| Number of shares repurchased                     | 2,976,885               | 1,494,001 | 1,500,000 |
| Average price paid per share                     | \$78.54                 | \$77.73   | \$63.65   |
| Total cost                                       | \$233,793               | \$116,132 | \$95,477  |

As of December 31, 2014, 3.5 million shares remained available for repurchase under the Company's stock repurchase program. The Company repurchased an additional 0.9 million shares in January 2015, for a total cost of \$75.2 million. In February 2015, the Company's Board of Directors increased the number of shares authorized for repurchase to a total of 5.0 million shares under the program.

The Company continues to generate positive cash flows from operating activities and believes that the best uses of its excess cash are to invest in the business and repurchase stock in order to both offset dilution and return capital to stockholders in excess of its requirements with the goal of increasing stockholder value. Additionally, the Company has in the past, and expects in the future, to acquire or make investments in complementary companies, products, services and technologies. Any future acquisitions may be funded by available cash and investments, cash generated from operations, credit facilities, or the issuance of additional securities.

#### Off-Balance-Sheet Arrangements

The Company does not have any special-purpose entities or off-balance-sheet financing.

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## Contractual Obligations

The Company's significant contractual obligations as of December 31, 2014 are summarized below:

| (in thousands)                                                                                  | Payments Due by Period |               |             |             |               |
|-------------------------------------------------------------------------------------------------|------------------------|---------------|-------------|-------------|---------------|
|                                                                                                 | Total                  | Within 1 year | 2 – 3 years | 4 – 5 years | After 5 years |
| Global headquarters operating lease <sup>(1)</sup>                                              | \$49,415               | \$4,278       | \$8,556     | \$8,556     | \$28,025      |
| Other operating leases <sup>(2)</sup>                                                           | 29,838                 | 10,397        | 12,100      | 4,603       | 2,738         |
| Unconditional purchase obligations <sup>(3)</sup>                                               | 9,821                  | 5,259         | 4,562       | —           | —             |
| Obligations related to uncertain tax positions, including interest and penalties <sup>(4)</sup> | 209                    | 209           | —           | —           | —             |
| Other long-term obligations <sup>(5)</sup>                                                      | 29,861                 | 9,206         | 13,378      | 3,611       | 3,666         |
| Total contractual obligations                                                                   | \$119,144              | \$29,349      | \$38,596    | \$16,770    | \$34,429      |

On September 14, 2012, the Company entered into a lease agreement for 186,000 square feet of rentable space located in an office facility in Canonsburg, Pennsylvania, which serves as the Company's new headquarters. The lease was effective as of September 14, 2012, but because the leased premises were under construction, the Company was not obligated to pay rent until three months following the date that the leased premises were (1) delivered to ANSYS, which occurred on October 1, 2014. The term of the lease is 183 months, beginning on October 1, 2014. The Company shall have a one-time right to terminate the lease effective upon the last day of the tenth full year following the date of possession (December 31, 2024), by providing the landlord with at least 18 months' prior written notice of such termination. The Company's lease for its prior headquarters expired on December 31, 2014.

(2) Other operating leases primarily include noncancellable lease commitments for the Company's other domestic and international offices as well as certain operating equipment.

(3) Unconditional purchase obligations primarily include software licenses and long-term purchase contracts for network, communication and office maintenance services, which are unrecorded as of December 31, 2014.

The Company has \$17.3 million of unrecognized tax benefits, including estimated interest and penalties, that have (4) been recorded as liabilities in accordance with income tax accounting guidance for which the Company is uncertain as to if or when such amounts may be settled. As a result, such amounts are excluded from the table above.

Other long-term obligations primarily include deferred compensation of \$18.5 million (including estimated imputed interest of \$300,000 within 1 year, \$450,000 within 2-3 years and \$90,000 within 4-5 years), pension (5) obligations of \$6.3 million for certain foreign locations of the Company and contingent consideration of \$2.8 million (including estimated imputed interest of \$270,000 within 1 year and \$390,000 within 2-3 years).



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### Critical Accounting Policies and Estimates

The Company believes that the following critical accounting policies affect the more significant judgments and estimates used in the preparation of its consolidated financial statements.

**Revenue Recognition:** Revenue is derived principally from the licensing of computer software products and from related maintenance contracts. Revenue from perpetual licenses is classified as license revenue and is recognized upon delivery of the licensed product and the utility that enables the customer to access authorization keys, provided that acceptance has occurred and a signed contractual obligation has been received, the price is fixed and determinable, and collectibility of the receivable is probable. The Company determines the fair value of post-contract customer support ("PCS") sold together with perpetual licenses based on the rate charged for PCS when sold separately. Revenue from PCS contracts is classified as maintenance and service revenue and is recognized ratably over the term of the contract.

Revenue for software lease licenses is classified as license revenue and is recognized over the period of the lease contract. Typically, the Company's software leases include PCS which, due to the short term (principally one year or less) of the Company's software lease licenses, cannot be separated from lease revenue for accounting purposes. As a result, both the lease license and PCS are recognized ratably over the lease period. Due to the short-term nature of the software lease licenses and the frequency with which the Company provides major product upgrades (typically every 12–18 months), the Company does not believe that a significant portion of the fee paid under the arrangement is attributable to the PCS component of the arrangement and, as a result, includes the revenue for the entire arrangement within software license revenue in the consolidated statements of income.

The Company's Apache products are typically licensed via longer term leases of 24–36 months. The Company recognizes revenue for these licenses over the term of the lease contract. Because the Company does not have vendor-specific objective evidence of the fair value of these leases, the Company also recognizes revenue from perpetual licenses over the term of the lease contract during the infrequent occurrence of these licenses being sold with Apache leases in multiple-element arrangements.

Revenue from training, support and other services is recognized as the services are performed. The Company applies the specific performance method to contracts in which the service consists of a single act, such as providing a training class to a customer, and the proportional performance method to other service contracts that are longer in duration and often include multiple acts (for example, both training and consulting). In applying the proportional performance method, the Company typically utilizes output-based estimates for services with contractual billing arrangements that are not based on time and materials, and estimates output based on the total tasks completed as compared to the total tasks required for each work contract. Input-based estimates are utilized for services that involve general consultations with contractual billing arrangements based on time and materials, utilizing direct labor as the input measure.

The Company also executes arrangements through independent channel partners in which the channel partners are authorized to market and distribute the Company's software products to end-users of the Company's products and services in specified territories. In sales facilitated by channel partners, the channel partner bears the risk of collection from the end-user customer. The Company recognizes revenue from transactions with channel partners when the channel partner submits a written purchase commitment, collectibility from the channel partner is probable, a signed license agreement is received from the end-user customer and delivery has occurred, provided that all other revenue recognition criteria are satisfied. Revenue from channel partner transactions is the amount remitted to the Company by the channel partners. This amount includes a fee for PCS that is compensation for providing technical enhancements and the second level of technical support to the end-user, which is based on the rate charged for PCS when sold separately, and is recognized over the period that PCS is to be provided. The Company does not offer right of return, product rotation or price protection to any of its channel partners.

Non-income related taxes collected from customers and remitted to governmental authorities are recorded on the consolidated balance sheet as accounts receivable and accrued expenses. The collection and payment of these amounts are reported on a net basis in the consolidated statements of income and do not impact reported revenues or expenses. The Company warrants to its customers that its software will substantially perform as specified in the Company's most current user manuals. The Company has not experienced significant claims related to software warranties beyond the scope of maintenance support, which the Company is already obligated to provide, and consequently, the Company

has not established reserves for warranty obligations.

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The Company's agreements with its customers generally require it to indemnify the customer against claims that the Company's software infringes third-party patent, copyright, trademark or other proprietary rights. Such indemnification obligations are generally limited in a variety of industry-standard respects, including the Company's right to replace an infringing product. As of December 31, 2014, the Company had not experienced any losses related to these indemnification obligations and no claims with respect thereto were outstanding. The Company does not expect significant claims related to these indemnification obligations, and consequently, the Company has not established any related reserves.

**Allowance for Doubtful Accounts:** The Company makes judgments as to its ability to collect outstanding receivables and provides allowances for a portion of receivables when collection becomes doubtful. Provisions are made based upon a specific review of all significant outstanding invoices from both value and delinquency perspectives. For those invoices not specifically reviewed, provisions are provided at differing rates based upon the age of the receivable and the geographic area of origin. In determining these percentages, the Company considers its historical collection experience and current economic trends in the customer's industry and geographic region. If the historical data used to calculate the allowance for doubtful accounts does not reflect the future ability to collect outstanding receivables, additional provisions for doubtful accounts may be needed and future results of operations could be materially affected.

**Income Taxes:** The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined based on the differences between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period of the enactment date.

The Company records net deferred tax assets to the extent it believes these assets will more likely than not be realized. In making such determination, the Company considers all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, projected future taxable income, tax planning strategies and recent financial operations. In the event the Company determines that it will be able to realize deferred income tax assets in the future in excess of their net recorded amount, an adjustment to the valuation allowance would be recorded that would reduce the provision for income taxes.

Tax benefits related to uncertain tax positions taken or expected to be taken on a tax return are recorded when such benefits meet a more likely than not threshold. Otherwise, these tax benefits are recorded when a tax position has been effectively settled, which means that the statute of limitations has expired or the appropriate taxing authority has completed their examination even though the statute of limitations remains open. The Company recognizes interest and penalties related to income taxes within the income tax expense line in the consolidated statements of income. Accrued interest and penalties are included within the related tax liability line in the consolidated balance sheets.

**Goodwill and Indefinite-Lived Intangible Assets:** The Company tests goodwill and indefinite-lived intangible assets for impairment at least annually by performing a quantitative assessment of whether the fair value of each reporting unit or asset exceeds its carrying amount. Goodwill is tested at the reporting unit level and indefinite-lived intangible assets are tested at the individual asset level. This requires the Company to assess and make judgments regarding a variety of factors which impact the fair value of the reporting unit or asset being tested, including business plans, anticipated future cash flows, economic projections and other market data. Because there are inherent uncertainties involved in these factors, significant differences between these estimates and actual results could result in future impairment charges and could materially impact the Company's future financial results. During the first quarter of 2014, the Company completed the annual impairment test for goodwill and indefinite-lived intangible assets and determined that these assets had not been impaired as of the test date, January 1, 2014.

**Contingencies:** The Company is involved in various investigations, claims and legal proceedings that arise in the ordinary course of business, including commercial disputes, labor and employment matters, tax audits, alleged infringement of intellectual property rights and other matters. The Company reviews the status of these matters, assesses its financial exposure and records a related accrual if the potential loss from an investigation, claim or legal

proceeding is probable and the amount is reasonably estimable. Significant judgment is involved in the determination of probability and in the determination of whether an exposure is reasonably estimable. As a result of the uncertainties involved in making these estimates, the Company may have to revise its estimates as facts and circumstances change. The revision of these estimates could have a material impact on the Company's financial position and results of operations.

**Stock-Based Compensation:** The Company grants options and other stock awards to employees and directors under the Company's stock option and grant plan. Eligible employees can also purchase shares of the Company's common stock at a discount under the Company's employee stock purchase plan. The benefits provided under these plans are share-based payments subject to the provisions of share-based payment accounting guidance. The Company uses the fair value method to apply the provisions of share-based payment accounting guidance. Stock-based compensation expense for 2014, 2013 and 2012

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was \$36.9 million, \$35.3 million and \$32.4 million, respectively. As of December 31, 2014, total unrecognized estimated compensation expense related to unvested stock options granted prior to that date was \$21.3 million, which is expected to be recognized over a weighted average period of 1.5 years.

The value of each stock option award was estimated on the date of grant, or date of acquisition for options issued in a business combination, using the Black-Scholes option pricing model ("Black-Scholes model"). The determination of the fair value of share-based payment awards using an option pricing model is affected by the Company's stock price as well as assumptions regarding a number of complex and subjective variables. These variables include the Company's expected stock price volatility over the term of the awards, actual and projected employee stock option exercise behaviors, risk-free interest rates and expected dividends. The table below presents the weighted average input assumptions used and resulting fair values for options granted or issued in business combinations during each respective year. The stock-based compensation expense for options is recorded ratably over their requisite service period. The interest rate assumptions were determined by using the five-year U.S. Treasury Note yield on the date of grant or date of acquisition.

|                                       | Year Ended December 31, |                |                |
|---------------------------------------|-------------------------|----------------|----------------|
|                                       | 2014                    | 2013           | 2012           |
| Risk-free interest rate               | 1.49% to 1.76%          | 0.68% to 1.48% | 0.59% to 1.04% |
| Expected dividend yield               | —%                      | —%             | —%             |
| Expected volatility                   | 35%                     | 37%            | 38%            |
| Expected term                         | 5.7 years               | 5.8 years      | 6.0 years      |
| Weighted average fair value per share | \$32.26                 | \$29.85        | \$24.82        |

Prior to 2012, the Company issued both non-qualified and incentive stock options; however, the Company no longer issues incentive stock options. The tax benefits associated with the outstanding incentive stock options are unpredictable, as they are predicated upon an award recipient triggering an event that disqualifies the award and that then results in a tax deduction to the Company.

Under the terms of the ANSYS, Inc. Long-Term Incentive Plan or in conjunction with an acquisition agreement, the Company issues various restricted stock awards which may have a single or combination of a market condition, an operating performance condition or a service condition. Restricted stock awards with a service condition or an operating performance condition are valued based on the grant date fair value of the award. Stock compensation expense is recognized over the employee's requisite service period for awards with only a service condition. For awards with an operating performance condition, stock-based compensation expense is recorded from the service inception date through the conclusion of the measurement period based on management's estimates concerning the probability of vesting. Vesting of restricted stock awards with a market condition or a portion thereof is based on the Company's performance as measured by total shareholder return relative to the median percentage appreciation of the NASDAQ Composite Index over a specified measurement period, subject to each participant's continued employment with the Company through the conclusion of the measurement period. The fair value of the restricted stock units is estimated using a Monte Carlo simulation model. The determination of the fair value of the awards is affected by the grant date and a number of variables, each of which has been identified in the chart below for awards granted during each respective period. Share-based compensation expense based on the fair value of the award is being recorded from the grant date through the conclusion of the measurement period.

|                                                       | Year Ended December 31, |           |           |
|-------------------------------------------------------|-------------------------|-----------|-----------|
|                                                       | 2014                    | 2013      | 2012      |
| Assumptions used in Monte Carlo lattice pricing model |                         |           |           |
| Risk-free interest rate                               | 0.70%                   | 0.35%     | 0.16%     |
| Expected dividend yield                               | —%                      | —%        | —%        |
| Expected volatility—ANSYS Stock Price                 | 25%                     | 25%       | 28%       |
| Expected volatility—NASDAQ Composite Index            | 15%                     | 20%       | 20%       |
| Expected term                                         | 2.8 years               | 2.8 years | 2.8 years |
| Correlation factor                                    | 0.70                    | 0.70      | 0.75      |
| Weighted average fair value per share                 | \$65.94                 | \$50.05   | \$33.16   |

The Company also grants deferred stock units to non-affiliate Independent Directors, which are rights to receive shares of common stock upon termination of service as a Director. The deferred stock units are issued in arrears and vest immediately.

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To the extent the Company changes the terms of its stock-based compensation programs, experiences market volatility in the pricing of its common stock that increases the implied volatility assumption used in the Black-Scholes model, refines different assumptions in future periods such as forfeiture rates that differ from current estimates, or assumes stock awards from acquired companies that are different in nature than the Company's stock award arrangements, among other potential impacts, the stock-based compensation expense recorded in future periods and the related tax benefits may differ significantly from what was recorded in previous reporting periods.

Estimates of stock-based compensation expense are significant to the Company's financial statements, but this expense is based on the aforementioned option valuation models and will never result in the payment of cash by the Company. For this reason, and because the Company does not view stock-based compensation as related to its operational performance, the Board of Directors and management exclude stock-based compensation expense when evaluating the Company's underlying business performance.

**Recent Accounting Guidance**

For information regarding recent accounting guidance and the impact of this guidance on the Company's consolidated financial statements, see Note 2 to the consolidated financial statements in Part IV, Item 15 of this Annual Report on Form 10-K.

Table of Contents**ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

**Interest Income Rate Risk.** Changes in the overall level of interest rates affect the interest income that is generated from the Company's cash and short-term investments. For the year ended December 31, 2014, total interest income was \$3.0 million. Cash and cash equivalents consist primarily of highly liquid investments such as money market mutual funds and deposits held at major banks.

**Foreign Currency Transaction Risk.** As the Company continues to expand its business presence in international regions, the portion of its revenue, expenses, cash, accounts receivable and payment obligations denominated in foreign currencies continues to increase. As a result, changes in currency exchange rates will affect the Company's financial position, results of operations and cash flows. The Company is most impacted by movements in and among the Japanese Yen, Euro, British Pound, Korean Won, Indian Rupee, Russian Rouble and U.S. Dollar.

With respect to revenue, on average for the year ended December 31, 2014, the U.S. Dollar was 1.6% stronger, when measured against the Company's primary foreign currencies, than for the year ended December 31, 2013. The net overall strengthening resulted in decreased revenue of \$7.6 million during the year ended December 31, 2014 as compared to the year ended December 31, 2013. The impact on revenue was primarily driven by \$9.8 million of adverse impact due to a weakening Japanese Yen, partially offset by \$1.9 million of favorable impact due to a strengthening British Pound. The net overall strengthening of the U.S. Dollar also resulted in decreased operating income of \$5.1 million during the year ended December 31, 2014 as compared to the year ended December 31, 2013. The Company has foreign currency denominated liabilities. In order to provide a natural hedge to mitigate the foreign currency exchange risk, the Company will purchase foreign currencies and hold these currencies in cash until the liabilities are settled.

The most significant currency impacts on revenue and operating income are typically attributable to U.S. Dollar exchange rate changes against the British Pound, Euro and Japanese Yen. The exchange rates for these currencies are reflected in the charts below:

|                        | Period End Exchange Rates |         |         |
|------------------------|---------------------------|---------|---------|
|                        | GBP/USD                   | EUR/USD | USD/JPY |
| As of                  |                           |         |         |
| December 31, 2011      | 1.554                     | 1.296   | 76.917  |
| December 31, 2012      | 1.625                     | 1.320   | 86.730  |
| December 31, 2013      | 1.656                     | 1.375   | 105.263 |
| December 31, 2014      | 1.557                     | 1.210   | 119.703 |
| Average Exchange Rates |                           |         |         |
| Twelve Months Ended    | GBP/USD                   | EUR/USD | USD/JPY |
| December 31, 2012      | 1.580                     | 1.286   | 79.794  |
| December 31, 2013      | 1.565                     | 1.328   | 97.463  |
| December 31, 2014      | 1.648                     | 1.329   | 105.592 |



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SUPPLEMENTARY DATA

The following tables set forth selected unaudited quarterly information. The Company believes that the amounts stated below present fairly the results of such periods when read in conjunction with the consolidated financial statements and related notes included in Part IV, Item 15 of this Annual Report on Form 10-K.

Other information required by this Item is included in Part IV, Item 15 of this Annual Report on Form 10-K.

| (in thousands, except per share data) | Fiscal Quarter Ended |                       |                  |                   |
|---------------------------------------|----------------------|-----------------------|------------------|-------------------|
|                                       | December 31,<br>2014 | September 30,<br>2014 | June 30,<br>2014 | March 31,<br>2014 |
| Revenue                               | \$254,375            | \$234,000             | \$232,375        | \$215,271         |
| Gross profit                          | 214,606              | 196,806               | 193,697          | 177,526           |
| Operating income                      | 94,048               | 90,808                | 83,532           | 79,062            |
| Net income                            | 69,633               | 65,479                | 63,036           | 56,542            |
| Earnings per share – basic            | \$0.76               | \$0.71                | \$0.68           | \$0.61            |
| Earnings per share – diluted          | \$0.74               | \$0.70                | \$0.67           | \$0.60            |

| (in thousands, except per share data) | Fiscal Quarter Ended |                       |                  |                   |
|---------------------------------------|----------------------|-----------------------|------------------|-------------------|
|                                       | December 31,<br>2013 | September 30,<br>2013 | June 30,<br>2013 | March 31,<br>2013 |
| Revenue                               | \$236,020            | \$212,658             | \$214,850        | \$197,732         |
| Gross profit                          | 197,411              | 177,489               | 178,170          | 161,498           |
| Operating income                      | 92,252               | 81,637                | 78,425           | 69,549            |
| Net income                            | 75,929               | 62,430                | 55,945           | 51,023            |
| Earnings per share – basic            | \$0.82               | \$0.67                | \$0.60           | \$0.55            |
| Earnings per share – diluted          | \$0.80               | \$0.66                | \$0.59           | \$0.54            |

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

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures. As required by Rules 13a-15 and 15d-15 of the Securities Exchange Act of 1934, as amended, or the Exchange Act, the Company has evaluated, with the participation of management, including the Chief Executive Officer and the Chief Financial Officer, the effectiveness of the design and operation of its disclosure controls and procedures as of the end of the period covered by this report. Based on such evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that such disclosure controls and procedures are effective, as defined in Rule 13a-15(e) of the Exchange Act.

The Company has a Disclosure Review Committee to assist in the quarterly evaluation of the Company's internal disclosure controls and procedures and in the review of the Company's periodic filings under the Exchange Act. The membership of the Disclosure Review Committee consists of the Company's Chief Executive Officer, Chief Financial Officer, Global Controller, General Counsel, Director of Investor Relations and Global Insurance, Vice President of Worldwide Sales and Support, Vice President of Human Resources and Chief Product Officer. This committee is advised by external counsel, particularly on SEC-related matters. Additionally, other members of the Company's global management team advise the committee with respect to disclosure via a sub-certification process.

The Company believes, based on its knowledge, that the financial statements and other financial information included in this report fairly present, in all material respects, the financial condition, results of operations and cash flows of the Company as of and for the periods presented in this report. The Company is committed to both a sound internal control environment and to good corporate governance.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. 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 policies or procedures may deteriorate.

From time to time, the Company reviews the disclosure controls and procedures, and may periodically make changes to enhance their effectiveness and to ensure that the Company's systems evolve with its business.

Report on Internal Control over Financial Reporting. The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f). Under the supervision and with the participation of the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, the Company has conducted an evaluation of the effectiveness of its internal control over financial reporting based upon the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that the Company's internal control over financial reporting was effective at December 31, 2014.

Additionally, Deloitte & Touche LLP, an independent registered public accounting firm, has issued an attestation report on the Company's internal control over financial reporting. This report is included in Item 15 of this Annual Report on Form 10-K.

Changes in Internal Controls. There were no changes in the Company's internal controls over financial reporting that occurred during the three months ended December 31, 2014 that materially affected, or were reasonably likely to materially affect, the Company's internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None.

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PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this Item is incorporated by reference to the Company's 2015 Proxy Statement and is set forth under "Our Board of Directors," "Our Executive Officers" and "Ownership of Our Common Stock" therein.

ITEM 11. EXECUTIVE  
COMPENSATION

The information required by this Item is incorporated by reference to the Company's 2015 Proxy Statement and is set forth under "Our Board of Directors" and "Our Executive Officers" therein.

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

The information required by this Item is incorporated by reference to the Company's 2015 Proxy Statement and is set forth under "Ownership of Our Common Stock" therein.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

The information required by this Item is incorporated by reference to the Company's 2015 Proxy Statement and is set forth under "Our Board of Directors" therein.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required by this Item is incorporated by reference to the Company's 2015 Proxy Statement and is set forth under "Independent Registered Public Accounting Firm" therein.

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PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Documents Filed as Part of this Annual Report on Form 10-K:

1. Financial Statements: The following consolidated financial statements and reports of independent registered public accounting firm are filed as part of this report:

|   |                                                                                                             |           |
|---|-------------------------------------------------------------------------------------------------------------|-----------|
| - | <u>Management's Report on Internal Control over Financial Reporting</u>                                     | <u>54</u> |
| - | <u>Reports of Independent Registered Public Accounting Firm</u>                                             | <u>55</u> |
| - | <u>Consolidated Balance Sheets as of December 31, 2014 and 2013</u>                                         | <u>57</u> |
| - | <u>Consolidated Statements of Income for the years ended December 31, 2014, 2013 and 2012</u>               | <u>58</u> |
| - | <u>Consolidated Statements of Comprehensive Income for the years ended December 31, 2014, 2013 and 2012</u> | <u>59</u> |
| - | <u>Consolidated Statements of Cash Flows for the years ended December 31, 2014, 2013 and 2012</u>           | <u>60</u> |
| - | <u>Consolidated Statements of Stockholders' Equity for the years ended December 31, 2014, 2013 and 2012</u> | <u>61</u> |
| - | <u>Notes to Consolidated Financial Statements</u>                                                           | <u>62</u> |

2. Financial Statement Schedule: The following financial statement schedule is filed as part of this report and should be read in conjunction with the consolidated financial statements.

|   |                                                        |           |
|---|--------------------------------------------------------|-----------|
| - | <u>Schedule II - Valuation and Qualifying Accounts</u> | <u>86</u> |
|---|--------------------------------------------------------|-----------|

Schedules not listed above have been omitted because they are not applicable, or are not required, or the information required to be set forth therein is included in the consolidated financial statements or notes thereto.

3. Exhibits: The Exhibits listed in the accompanying Exhibit Index immediately following the financial statement schedule are filed as part of, or incorporated by reference into, this Annual Report on Form 10-K.

(b) Exhibits:

The Company hereby files as part of this Annual Report on Form 10-K the Exhibits listed in the exhibit index that follows the Signatures page of this Annual Report on Form 10-K.

1. Financial Statement Schedule

The Company hereby files as part of this Annual Report on Form 10-K the financial statement schedule listed in Item 15(a)(2) as set forth above.

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MANAGEMENT’S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Management is responsible for establishing and maintaining an adequate system of internal control over financial reporting for the Company. In order to evaluate the effectiveness of internal control over financial reporting, management has conducted an assessment, including testing, using the financial reporting criteria in the Internal Control—Integrated Framework (2013), issued by the Committee of Sponsoring Organizations of the Treadway Commission.

The Company’s system of internal control over financial reporting is designed to provide reasonable assurance to the Company’s management and board of directors regarding the reliability of financial records used in preparation of the Company’s published financial statements. As all internal control systems have inherent limitations, even systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation. Based on its assessment, management has concluded that the Company maintained an effective system of internal control over financial reporting as of December 31, 2014. Deloitte & Touche LLP, an independent registered public accounting firm, has audited the Company’s internal control over financial reporting as of December 31, 2014, as stated in their report which appears in Part IV, Item 15 of this Annual Report on Form 10-K.

/s/ JAMES E. CASHMAN III  
James E. Cashman III  
President and Chief Executive Officer  
February 26, 2015

/s/ MARIA T. SHIELDS  
Maria T. Shields  
Chief Financial Officer  
February 26, 2015

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of ANSYS, Inc.  
Canonsburg, Pennsylvania

We have audited the accompanying consolidated balance sheets of ANSYS, Inc. and subsidiaries (the "Company") as of December 31, 2014 and 2013, and the related consolidated statements of income, comprehensive income, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2014. Our audits also included the financial statement schedule listed in the Index at Item 15. These financial statements and financial statement schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on the financial statements and financial statement schedule based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such consolidated financial statements present fairly, in all material respects, the financial position of ANSYS, Inc. and subsidiaries as of December 31, 2014 and 2013, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2014, in conformity with accounting principles generally accepted in the United States of America. Also, in our opinion, such financial statement schedule, when considered in relation to the basic consolidated financial statements taken as a whole, presents fairly, in all material respects, the information set forth therein.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2014, based on the criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 26, 2015 expressed an unqualified opinion on the Company's internal control over financial reporting.

/s/ Deloitte & Touche LLP  
Pittsburgh, Pennsylvania  
February 26, 2015

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of ANSYS, Inc.

Canonsburg, Pennsylvania

We have audited the internal control over financial reporting of ANSYS, Inc. and subsidiaries (the "Company") as of December 31, 2014, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. 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 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 conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). 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.

A company's internal control over financial reporting is a process designed by, or under the supervision of, the company's principal executive and principal financial officers, or persons performing similar functions, and effected by the company's board of directors, management, and other personnel 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 the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2014, based on the criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated financial statements and financial statement schedule as of and for the year ended December 31, 2014 of the Company and our report dated February 26, 2015 expressed an unqualified opinion on those financial statements and financial statement schedule.

/s/ Deloitte & Touche LLP

Pittsburgh, Pennsylvania

February 26, 2015

Table of ContentsANSYS, INC. AND SUBSIDIARIES  
CONSOLIDATED BALANCE SHEETS

|                                                                                                  | December 31, |             |
|--------------------------------------------------------------------------------------------------|--------------|-------------|
| (in thousands, except share and per share data)                                                  | 2014         | 2013        |
| <b>ASSETS</b>                                                                                    |              |             |
| Current assets:                                                                                  |              |             |
| Cash and cash equivalents                                                                        | \$788,064    | \$742,486   |
| Short-term investments                                                                           | 714          | 500         |
| Accounts receivable, less allowance for doubtful accounts of \$5,500 and \$5,700, respectively   | 101,229      | 97,845      |
| Other receivables and current assets                                                             | 192,308      | 200,734     |
| Deferred income taxes                                                                            | 28,178       | 26,031      |
| Total current assets                                                                             | 1,110,493    | 1,067,596   |
| Property and equipment, net                                                                      | 64,643       | 60,538      |
| Construction-in-progress - leased facility                                                       | —            | 18,136      |
| Goodwill                                                                                         | 1,312,182    | 1,255,704   |
| Other intangible assets, net                                                                     | 259,312      | 291,390     |
| Other long-term assets                                                                           | 6,187        | 10,586      |
| Deferred income taxes                                                                            | 21,286       | 18,432      |
| Total assets                                                                                     | \$2,774,103  | \$2,722,382 |
| <b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>                                                      |              |             |
| Current liabilities:                                                                             |              |             |
| Accounts payable                                                                                 | \$3,421      | \$7,939     |
| Accrued bonuses and commissions                                                                  | 47,001       | 43,992      |
| Accrued income taxes                                                                             | 7,127        | 9,333       |
| Deferred income taxes                                                                            | 24           | 49          |
| Other accrued expenses and liabilities                                                           | 74,862       | 69,343      |
| Deferred revenue                                                                                 | 332,664      | 309,775     |
| Total current liabilities                                                                        | 465,099      | 440,431     |
| Long-term liabilities:                                                                           |              |             |
| Non-cash obligations for construction-in-progress - leased facility                              | —            | 18,136      |
| Deferred income taxes                                                                            | 37,390       | 66,899      |
| Other long-term liabilities                                                                      | 54,113       | 60,670      |
| Total long-term liabilities                                                                      | 91,503       | 145,705     |
| Commitments and contingencies                                                                    |              |             |
| Stockholders' equity:                                                                            |              |             |
| Preferred stock, \$.01 par value; 2,000,000 shares authorized; zero shares issued or outstanding | —            | —           |
| Common stock, \$.01 par value; 300,000,000 shares authorized; 93,236,023 shares issued           | 932          | 932         |
| Additional paid-in capital                                                                       | 904,825      | 926,031     |
| Retained earnings                                                                                | 1,539,508    | 1,284,818   |
| Treasury stock, at cost: 2,470,675 and 917,937 shares, respectively                              | (196,010)    | (72,891)    |
| Accumulated other comprehensive loss                                                             | (31,754)     | (2,644)     |
| Total stockholders' equity                                                                       | 2,217,501    | 2,136,246   |
| Total liabilities and stockholders' equity                                                       | \$2,774,103  | \$2,722,382 |

The accompanying notes are an integral part of the consolidated financial statements.





Table of ContentsANSYS, INC. AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF INCOME

|                                                                                       | Year Ended December 31, |           |           |
|---------------------------------------------------------------------------------------|-------------------------|-----------|-----------|
| (in thousands, except per share data)                                                 | 2014                    | 2013      | 2012      |
| Revenue:                                                                              |                         |           |           |
| Software licenses                                                                     | \$564,502               | \$528,944 | \$501,870 |
| Maintenance and service                                                               | 371,519                 | 332,316   | 296,148   |
| Total revenue                                                                         | 936,021                 | 861,260   | 798,018   |
| Cost of sales:                                                                        |                         |           |           |
| Software licenses                                                                     | 30,607                  | 28,363    | 24,512    |
| Amortization                                                                          | 37,653                  | 38,298    | 40,889    |
| Maintenance and service                                                               | 85,126                  | 80,031    | 74,115    |
| Total cost of sales                                                                   | 153,386                 | 146,692   | 139,516   |
| Gross profit                                                                          | 782,635                 | 714,568   | 658,502   |
| Operating expenses:                                                                   |                         |           |           |
| Selling, general and administrative                                                   | 246,376                 | 218,907   | 205,178   |
| Research and development                                                              | 165,421                 | 151,439   | 132,628   |
| Amortization                                                                          | 23,388                  | 22,359    | 26,443    |
| Total operating expenses                                                              | 435,185                 | 392,705   | 364,249   |
| Operating income                                                                      | 347,450                 | 321,863   | 294,253   |
| Interest expense                                                                      | (779)                   | (1,169)   | (2,661)   |
| Interest income                                                                       | 3,002                   | 2,841     | 3,360     |
| Other expense, net                                                                    | (1,534)                 | (1,046)   | (1,405)   |
| Income before income tax provision                                                    | 348,139                 | 322,489   | 293,547   |
| Income tax provision                                                                  | 93,449                  | 77,162    | 90,064    |
| Net income                                                                            | \$254,690               | \$245,327 | \$203,483 |
| Earnings per share – basic:                                                           |                         |           |           |
| Basic earnings per share                                                              | \$2.77                  | \$2.65    | \$2.20    |
| Weighted average shares – basic                                                       | 92,067                  | 92,691    | 92,622    |
| Earnings per share – diluted:                                                         |                         |           |           |
| Diluted earnings per share                                                            | \$2.70                  | \$2.58    | \$2.14    |
| Weighted average shares – diluted                                                     | 94,194                  | 95,139    | 94,954    |
| The accompanying notes are an integral part of the consolidated financial statements. |                         |           |           |

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## ANSYS, INC. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

|                                          | Year Ended December 31, |           |           |
|------------------------------------------|-------------------------|-----------|-----------|
| (in thousands)                           | 2014                    | 2013      | 2012      |
| Net income                               | \$254,690               | \$245,327 | \$203,483 |
| Other comprehensive loss:                |                         |           |           |
| Foreign currency translation adjustments | (29,110 )               | (11,295 ) | (3,225 )  |
| Comprehensive income                     | \$225,580               | \$234,032 | \$200,258 |

The accompanying notes are an integral part of the consolidated financial statements.

Table of ContentsANSYS, INC. AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CASH FLOWS

|                                                                                   | Year Ended December 31, |           |           |
|-----------------------------------------------------------------------------------|-------------------------|-----------|-----------|
| (in thousands)                                                                    | 2014                    | 2013      | 2012      |
| Cash flows from operating activities:                                             |                         |           |           |
| Net income                                                                        | \$254,690               | \$245,327 | \$203,483 |
| Adjustments to reconcile net income to net cash provided by operating activities: |                         |           |           |
| Depreciation and amortization                                                     | 81,924                  | 80,701    | 85,422    |
| Deferred income tax benefit                                                       | (18,859)                | (24,025)  | (18,896)  |
| Provision for bad debts                                                           | 2,104                   | 1,465     | 938       |
| Stock-based compensation expense                                                  | 36,861                  | 35,298    | 32,415    |
| Excess tax benefits from stock-based compensation                                 | (14,531)                | (9,971)   | (13,888)  |
| Other                                                                             | 868                     | 73        | 69        |
| Changes in operating assets and liabilities:                                      |                         |           |           |
| Accounts receivable                                                               | (5,554)                 | (2,983)   | (12,401)  |
| Other receivables and current assets                                              | (877)                   | (44,162)  | (50,485)  |
| Other long-term assets                                                            | (1,838)                 | (462)     | 5,027     |
| Accounts payable, accrued expenses and current liabilities                        | 8,208                   | 15,737    | 9,548     |
| Accrued income taxes                                                              | 12,102                  | 11,876    | 14,616    |
| Deferred revenue                                                                  | 35,548                  | 42,105    | 47,748    |
| Other long-term liabilities                                                       | (5,339)                 | (17,996)  | (5,181)   |
| Net cash provided by operating activities                                         | 385,307                 | 332,983   | 298,415   |
| Cash flows from investing activities:                                             |                         |           |           |
| Acquisitions, net of cash acquired                                                | (103,016)               | (4,224)   | (45,075)  |
| Capital expenditures                                                              | (26,023)                | (28,848)  | (23,977)  |
| Purchases of short-term investments                                               | (355)                   | (261)     | (228)     |
| Maturities of short-term investments                                              | 124                     | 156       | 324       |
| Net cash used in investing activities                                             | (129,270)               | (33,177)  | (68,956)  |
| Cash flows from financing activities:                                             |                         |           |           |
| Principal payments on long-term debt                                              | —                       | (53,149)  | (74,408)  |
| Principal payments on capital leases                                              | (91)                    | —         | (14)      |
| Purchase of treasury stock                                                        | (233,793)               | (116,132) | (95,477)  |
| Restricted stock withholding taxes paid in lieu of issued shares                  | (5,108)                 | (4,269)   | —         |
| Contingent consideration payments                                                 | (4,504)                 | (3,174)   | (3,241)   |
| Proceeds from issuance of common stock under Employee Stock Purchase Plan         | 3,629                   | 2,987     | 2,446     |
| Proceeds from exercise of stock options                                           | 39,694                  | 34,007    | 31,960    |
| Excess tax benefits from stock-based compensation                                 | 14,531                  | 9,971     | 13,888    |
| Net cash used in financing activities                                             | (185,642)               | (129,759) | (124,846) |
| Effect of exchange rate fluctuations on cash and cash equivalents                 | (24,817)                | (4,264)   | 262       |
| Net increase in cash and cash equivalents                                         | 45,578                  | 165,783   | 104,875   |
| Cash and cash equivalents, beginning of period                                    | 742,486                 | 576,703   | 471,828   |
| Cash and cash equivalents, end of period                                          | \$788,064               | \$742,486 | \$576,703 |
| Supplemental disclosures of cash flow information:                                |                         |           |           |
| Income taxes paid                                                                 | \$118,004               | \$97,706  | \$103,196 |
| Interest paid                                                                     | \$643                   | \$736     | \$1,970   |
| Change in construction-in-progress - leased facility                              | \$(18,136)              | \$18,136  | \$—       |

The accompanying notes are an integral part of the consolidated financial statements.



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## ANSYS, INC. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

| (in thousands)                                                       | Common Stock |        | Additional<br>Paid-in<br>Capital | Retained<br>Earnings | Treasury Stock |            | Accumulated<br>Other<br>Comprehensive<br>Income<br>(Loss) | Total<br>Stockholders'<br>Equity |
|----------------------------------------------------------------------|--------------|--------|----------------------------------|----------------------|----------------|------------|-----------------------------------------------------------|----------------------------------|
|                                                                      | Shares       | Amount |                                  |                      | Shares         | Amount     |                                                           |                                  |
| Balance, January 1, 2012                                             | 92,652       | \$927  | \$905,662                        | \$836,008            | —              | \$—        | \$ 11,876                                                 | \$ 1,754,473                     |
| Treasury shares acquired                                             |              |        |                                  |                      | 1,500          | (95,477 )  |                                                           | (95,477 )                        |
| Stock-based compensation activity, including tax benefit of \$14,216 | 525          | 5      | 20,791                           |                      | (939 )         | 57,795     |                                                           | 78,591                           |
| Issuance of common stock under Employee Stock Purchase Plan          | 25           |        | 915                              |                      | (25 )          | 1,531      |                                                           | 2,446                            |
| Other comprehensive loss                                             |              |        |                                  |                      |                |            | (3,225 )                                                  | (3,225 )                         |
| Net income for the year                                              |              |        |                                  | 203,483              |                |            |                                                           | 203,483                          |
| Balance, December 31, 2012                                           | 93,202       | 932    | 927,368                          | 1,039,491            | 536            | (36,151 )  | 8,651                                                     | 1,940,291                        |
| Treasury shares acquired                                             |              |        |                                  |                      | 1,494          | (116,132 ) |                                                           | (116,132 )                       |
| Stock-based compensation activity, including tax benefit of \$10,033 | 34           |        | (806 )                           |                      | (1,063 )       | 75,874     |                                                           | 75,068                           |
| Issuance of common stock under Employee Stock Purchase Plan          |              |        | (531 )                           |                      | (49 )          | 3,518      |                                                           | 2,987                            |
| Other comprehensive loss                                             |              |        |                                  |                      |                |            | (11,295 )                                                 | (11,295 )                        |
| Net income for the year                                              |              |        |                                  | 245,327              |                |            |                                                           | 245,327                          |
| Balance, December 31, 2013                                           | 93,236       | 932    | 926,031                          | 1,284,818            | 918            | (72,891 )  | (2,644 )                                                  | 2,136,246                        |
| Treasury shares acquired                                             |              |        |                                  |                      | 2,977          | (233,793 ) |                                                           | (233,793 )                       |
| Stock-based compensation activity, including tax benefit of          |              |        | (20,113 )                        |                      | (1,372 )       | 106,530    |                                                           | 86,417                           |

|                                                             |        |        |           |             |       |             |             |           |             |  |
|-------------------------------------------------------------|--------|--------|-----------|-------------|-------|-------------|-------------|-----------|-------------|--|
| \$14,970                                                    |        |        |           |             |       |             |             |           |             |  |
| Issuance of common stock under Employee Stock Purchase Plan |        | (515 ) |           | (52 )       | 4,144 |             |             |           | 3,629       |  |
| Other comprehensive loss                                    |        |        |           |             |       |             | (29,110 )   | (29,110 ) |             |  |
| Net income for the year                                     |        |        |           | 254,690     |       |             |             |           | 254,690     |  |
| Acquisition-related activity                                |        | (578 ) |           |             |       |             |             |           | (578 )      |  |
| Balance, December 31, 2014                                  | 93,236 | \$932  | \$904,825 | \$1,539,508 | 2,471 | \$(196,010) | \$(31,754 ) |           | \$2,217,501 |  |

The accompanying notes are an integral part of the consolidated financial statements.

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### ANSYS, INC. AND SUBSIDIARIES

### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2014

#### 1. Organization

ANSYS, Inc. (hereafter the "Company" or "ANSYS") develops and globally markets engineering simulation software and technologies widely used by engineers, designers, researchers and students across a broad spectrum of industries and academia, including aerospace, automotive, manufacturing, electronics, biomedical, energy and defense.

As defined by the accounting guidance, the Company operates as three segments. However, the Company determined that its three operating segments are sufficiently similar and should be aggregated under the criteria provided in the related accounting guidance.

Given the integrated approach to the multi-discipline problem-solving needs of the Company's customers, a single sale of software may contain components from multiple product areas and include combined technologies. The Company also has a multi-year product and integration strategy that will result in new, combined products or changes to the historical product offerings. As a result, it is impracticable for the Company to provide accurate historical or current reporting among its various product lines.

#### 2. Accounting Policies

##### Accounting Principles

The financial statements and accompanying notes are prepared in accordance with accounting principles generally accepted in the United States.

##### Principles of Consolidation

The accompanying consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany accounts and transactions have been eliminated.

##### Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements. Estimates also affect the amounts of revenue and expenses during the reported periods. Significant estimates included in these consolidated financial statements include:

- Allowances for doubtful accounts receivable
- Income tax accruals
- Uncertain tax positions
- Tax valuation reserves
- Fair value of stock-based compensation
- Contract revenue
- Useful lives for depreciation and amortization
- Valuations of goodwill and other intangible assets
- Contingent consideration
- Deferred compensation
- Loss contingencies

Actual results could differ from these estimates. Changes in estimates are recorded in the results of operations in the period that the changes occur.



Table of Contents**Revenue Recognition**

Revenue is derived principally from the licensing of computer software products and from related maintenance contracts. Revenue from perpetual licenses is classified as license revenue and is recognized upon delivery of the licensed product and the utility that enables the customer to access authorization keys, provided that acceptance has occurred and a signed contractual obligation has been received, the price is fixed and determinable, and collectibility of the receivable is probable. The Company determines the fair value of PCS sold together with perpetual licenses based on the rate charged for PCS when sold separately. Revenue from PCS contracts is classified as maintenance and service revenue and is recognized ratably over the term of the contract.

Revenue for software lease licenses is classified as license revenue and is recognized over the period of the lease contract. Typically, the Company's software leases include PCS which, due to the short term (principally one year or less) of the Company's software lease licenses, cannot be separated from lease revenue for accounting purposes. As a result, both the lease license and PCS are recognized ratably over the lease period. Due to the short-term nature of the software lease licenses and the frequency with which the Company provides major product upgrades (typically every 12–18 months), the Company does not believe that a significant portion of the fee paid under the arrangement is attributable to the PCS component of the arrangement and, as a result, includes the revenue for the entire arrangement within software license revenue in the consolidated statements of income.

The Company's Apache products are typically licensed via longer term leases of 24–36 months. The Company recognizes revenue for these licenses over the term of the lease contract. Because the Company does not have vendor-specific objective evidence of the fair value of these leases, the Company also recognizes revenue from perpetual licenses over the term of the lease contract during the infrequent occurrence of these licenses being sold with Apache leases in multiple-element arrangements.

Revenue from training, support and other services is recognized as the services are performed. The Company applies the specific performance method to contracts in which the service consists of a single act, such as providing a training class to a customer, and the proportional performance method to other service contracts that are longer in duration and often include multiple acts (for example, both training and consulting). In applying the proportional performance method, the Company typically utilizes output-based estimates for services with contractual billing arrangements that are not based on time and materials, and estimates output based on the total tasks completed as compared to the total tasks required for each work contract. Input-based estimates are utilized for services that involve general consultations with contractual billing arrangements based on time and materials, utilizing direct labor as the input measure.

The Company also executes arrangements through independent channel partners in which the channel partners are authorized to market and distribute the Company's software products to end-users of the Company's products and services in specified territories. In sales facilitated by channel partners, the channel partner bears the risk of collection from the end-user customer. The Company recognizes revenue from transactions with channel partners when the channel partner submits a written purchase commitment, collectibility from the channel partner is probable, a signed license agreement is received from the end-user customer and delivery has occurred, provided that all other revenue recognition criteria are satisfied. Revenue from channel partner transactions is the amount remitted to the Company by the channel partners. This amount includes a fee for PCS that is compensation for providing technical enhancements and the second level of technical support to the end-user, which is based on the rate charged for PCS when sold separately, and is recognized over the period that PCS is to be provided. The Company does not offer right of return, product rotation or price protection to any of its channel partners.

Non-income related taxes collected from customers and remitted to governmental authorities are recorded on the consolidated balance sheet as accounts receivable and accrued expenses. The collection and payment of these amounts are reported on a net basis in the consolidated statements of income and do not impact reported revenues or expenses. The Company warrants to its customers that its software will substantially perform as specified in the Company's most current user manuals. The Company has not experienced significant claims related to software warranties beyond the scope of maintenance support, which the Company is already obligated to provide, and consequently the Company has not established reserves for warranty obligations.



Table of Contents**Cash and Cash Equivalents**

Cash and cash equivalents consist primarily of highly liquid investments such as deposits held at major banks and money market mutual funds with original maturities of three months or less. Cash equivalents are carried at cost, which approximates fair value. The Company's cash and cash equivalents balances comprise the following:

|                                    | December 31, 2014 |            | December 31, 2013 |            |
|------------------------------------|-------------------|------------|-------------------|------------|
| (in thousands, except percentages) | Amount            | % of Total | Amount            | % of Total |
| Cash accounts                      | \$506,731         | 64.3       | \$439,348         | 59.2       |
| Money market mutual funds          | 281,333           | 35.7       | 303,138           | 40.8       |
| Total                              | \$788,064         |            | \$742,486         |            |

The Company's money market mutual fund balances are held in various funds of a single issuer.

**Short-Term Investments**

Short-term investments consist primarily of deposits held by certain foreign subsidiaries of the Company with original maturities of three months to one year. The Company considers investments backed by government agencies or financial institutions with maturities of less than one year to be highly liquid and classifies such investments as short-term investments. Short-term investments are recorded at fair value. The Company uses the specific identification method to determine the realized gain or loss upon the sale of such securities.

The Company is averse to principal loss and seeks to preserve invested funds by limiting default risk, market risk and reinvestment risk by placing its investments with high-quality credit issuers.

**Property and Equipment**

Property and equipment is stated at cost. Depreciation is computed on the straight-line method over the estimated useful lives of the various classes of assets, which range from one to 40 years. Repairs and maintenance are charged to expense as incurred. Gains or losses from the sale or retirement of property and equipment are included in operating income.

**Research and Development**

Research and development costs, other than certain capitalized software development costs, are expensed as incurred.

**Software Development Costs**

Internally developed software costs required to be capitalized as defined by the accounting guidance are not material to the Company's consolidated financial statements.

**Business Combinations**

When the Company consummates an acquisition, the assets acquired and the liabilities assumed are recognized separately from goodwill, at their acquisition date fair values. Goodwill as of the acquisition date is measured as the excess of the fair value of consideration transferred over the net of the acquisition date fair values of the assets acquired and the liabilities assumed. While best estimates and assumptions are used to accurately value assets acquired and liabilities assumed at the acquisition date as well as contingent consideration, where applicable, the Company's estimates are inherently uncertain and subject to refinement. As a result, during the measurement period, which may be up to one year from the acquisition date, the Company records adjustments to the assets acquired and liabilities assumed with the corresponding offset to goodwill based on refinements to information regarding what was known and knowable as of the acquisition date. Upon the earlier of the conclusion of the measurement period or final determination of the values of assets acquired or liabilities assumed, any subsequent adjustments are recorded in the consolidated statements of income.

**Goodwill and Other Intangible Assets**

Goodwill represents the excess of the consideration transferred over the fair value of net identifiable assets acquired. Other intangible assets consist of trade names, customer lists, contract backlog, acquired software and technology, and a non-compete agreement. Intangible assets that are not considered to have an indefinite useful life are amortized over their useful lives, which are generally two to fifteen years. Amortization expense for intangible assets was \$61.0 million, \$60.7 million and \$67.3 million for the years ended December 31, 2014, 2013 and 2012, respectively.

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The Company tests goodwill and indefinite-lived intangible assets for impairment at least annually by performing a quantitative assessment of whether the fair value of each reporting unit or asset exceeds its carrying amount. Goodwill is tested at the reporting unit level and indefinite-lived intangible assets are tested at the individual asset level. This requires the Company to assess and make judgments regarding a variety of factors which impact the fair value of the reporting unit or asset being tested, including business plans, anticipated future cash flows, economic projections and other market data.

The Company performs its annual impairment tests for goodwill and indefinite-lived intangible assets on January 1 of each year unless there is an indicator that would require a test during the year. The Company periodically reviews the carrying value of other intangible assets and will recognize impairments when events or circumstances indicate that such assets may be impaired.

**Concentrations of Credit Risk**

The Company has a concentration of credit risk with respect to revenue and trade receivables due to the use of certain significant channel partners to market and sell the Company's products. The Company performs periodic credit evaluations of its customers' financial condition and generally does not require collateral. The following table outlines concentrations of risk with respect to the Company's revenue:

| (as a % of revenue)                     | Year Ended December 31, |      |      |   |
|-----------------------------------------|-------------------------|------|------|---|
|                                         | 2014                    | 2013 | 2012 |   |
| Revenue from channel partners           | 25                      | % 25 | % 26 | % |
| Largest channel partner                 | 4                       | % 6  | % 6  | % |
| 2 <sup>nd</sup> largest channel partner | 2                       | % 2  | % 3  | % |

No single customer accounted for more than 5% of the Company's revenue in 2014, 2013 or 2012.

In addition to the concentration of credit risk with respect to trade receivables, the Company's cash and cash equivalents are also exposed to concentration of credit risk. The Company's cash and cash equivalent accounts are insured through various public and private bank deposit insurance programs, foreign and domestic; however, a significant portion of the Company's funds are not insured. The following table outlines concentrations of risk with respect to the Company's cash and cash equivalents:

| (in thousands)                                                                           | As of December 31, |           |
|------------------------------------------------------------------------------------------|--------------------|-----------|
|                                                                                          | 2014               | 2013      |
| Cash and cash equivalents held domestically                                              | \$556,328          | \$530,680 |
| Cash and cash equivalents held by foreign subsidiaries                                   | 231,736            | 211,806   |
| Cash and cash equivalents held in excess of deposit insurance, foreign and domestic      | 747,911            | 717,589   |
| Cash and cash equivalents held with one U.S. financial institution, foreign and domestic | 350,628            | 378,562   |

**Allowance for Doubtful Accounts**

The Company makes judgments as to its ability to collect outstanding receivables and provides allowances for a portion of receivables when collection becomes doubtful. Provisions are made based upon a specific review of all significant outstanding invoices from both value and delinquency perspectives. For those invoices not specifically reviewed, provisions are estimated at differing rates based upon the age of the receivable and the geographic area of origin. In determining these percentages, the Company considers its historical collection experience and current economic trends in the customer's industry and geographic region. The Company recorded provisions for doubtful accounts of \$2.1 million, \$1.5 million and \$0.9 million for the years ended December 31, 2014, 2013 and 2012, respectively.

**Income Taxes**

The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined based on the differences between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities

is recognized in income in the period of the enactment date.

The Company records net deferred tax assets to the extent it believes these assets will more likely than not be realized. In making such determination, the Company considers all available positive and negative evidence, including scheduled reversals

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of deferred tax liabilities, projected future taxable income, tax planning strategies and recent financial operations. In the event the Company determines that it will be able to realize deferred income tax assets in the future in excess of their net recorded amount, an adjustment to the valuation allowance would be recorded that would reduce the provision for income taxes.

Tax benefits related to uncertain tax positions taken or expected to be taken on a tax return are recorded when such benefits meet a more likely than not threshold. Otherwise, these tax benefits are recorded when a tax position has been effectively settled, which means that the statute of limitations has expired or the appropriate taxing authority has completed their examination even though the statute of limitations remains open. The Company recognizes interest and penalties related to income taxes within the income tax expense line in the accompanying consolidated statements of income. Accrued interest and penalties are included within the related tax liability line in the consolidated balance sheets.

**Foreign Currencies**

Certain of the Company's sales and intercompany transactions are denominated in foreign currencies. These transactions are translated to the functional currency at the exchange rate on the transaction date. Assets and liabilities denominated in a currency other than the Company's or subsidiary's functional currency are translated at the effective exchange rate on the balance sheet date. Gains and losses resulting from foreign exchange transactions are included in other expense. The Company recorded net foreign exchange losses of \$1.6 million, \$1.1 million and \$1.4 million for the years ended December 31, 2014, 2013 and 2012, respectively.

The financial statements of the Company's foreign subsidiaries are translated from the functional (local) currency to U.S. Dollars. Assets and liabilities are translated at the exchange rates on the balance sheet date. Results of operations are translated at average exchange rates, which approximate rates in effect when the underlying transactions occur.

**Accumulated Other Comprehensive Income**

Accumulated other comprehensive income is composed entirely of foreign currency translation adjustments.

**Earnings Per Share**

Basic earnings per share ("EPS") amounts are computed by dividing earnings by the weighted average number of common shares outstanding during the period. Diluted EPS amounts assume the issuance of common stock for all potentially dilutive equivalents outstanding. To the extent stock options are anti-dilutive, they are excluded from the calculation of diluted EPS. The details of basic and diluted EPS are as follows:

| (in thousands, except per share data)         | Year Ended December 31, |           |           |
|-----------------------------------------------|-------------------------|-----------|-----------|
|                                               | 2014                    | 2013      | 2012      |
| Net income                                    | \$254,690               | \$245,327 | \$203,483 |
| Weighted average shares outstanding – basic   | 92,067                  | 92,691    | 92,622    |
| Dilutive effect of stock plans                | 2,127                   | 2,448     | 2,332     |
| Weighted average shares outstanding – diluted | 94,194                  | 95,139    | 94,954    |
| Basic earnings per share                      | \$2.77                  | \$2.65    | \$2.20    |
| Diluted earnings per share                    | \$2.70                  | \$2.58    | \$2.14    |
| Anti-dilutive options                         | 718                     | 885       | 1,506     |

**Stock-Based Compensation**

The Company accounts for stock-based compensation in accordance with share-based payment accounting guidance. The guidance requires an entity to measure the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award. The cost is recognized over the period during which an employee is required to provide service in exchange for the award, typically the vesting period.

**Fair Value of Financial Instruments**

The Company accounts for certain assets and liabilities at fair value in accordance with the accounting guidance applicable to fair value measurements and disclosures. The carrying values of cash, cash equivalents, accounts receivable, accounts payable, accrued expenses, other accrued liabilities and short-term obligations are deemed to be reasonable estimates of their fair values because of their short-term nature. The fair values of investments are based on quoted market prices for those or similar investments.



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### New Accounting Guidance

Revenue from contracts with customers: In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update No. 2014-09, Revenue from Contracts with Customers (Topic 606) (ASU 2014-09). ASU 2014-09 supersedes most current revenue recognition guidance, including industry-specific guidance. Previous guidance requires an entity to recognize revenue when persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the seller's price to the buyer is fixed or determinable, and collectibility is reasonably assured. Under the new guidance, an entity is required to evaluate revenue recognition by identifying a contract with a customer, identifying the performance obligations in the contract, determining the transaction price, allocating the transaction price to the performance obligations in the contract and recognizing revenue when (or as) the entity satisfies a performance obligation. This guidance will be effective for annual periods beginning after December 15, 2016, including interim periods within that reporting period. Entities have the option of using a full retrospective, cumulative effect or modified approach to adopt the guidance. This update will impact the timing and amounts of revenue recognized. The Company is currently evaluating the effect that implementation of this update will have on its financial results upon adoption.

### 3. Acquisitions

#### SpaceClaim Corporation

On April 30, 2014, the Company completed the acquisition of SpaceClaim, a leading provider of 3-D modeling technology. Under the terms of the agreement, ANSYS acquired SpaceClaim for a purchase price of \$85.0 million, which was paid almost entirely in cash.

SpaceClaim's software provides customers with a powerful and intuitive 3-D direct modeling solution to author new concepts and then leverage the power of simulation to rapidly iterate on these designs to drive innovation. The broad appeal of the SpaceClaim technology can help the Company deliver simulation tools to any engineer in any industry. The complementary combination is expected to accelerate development of new and innovative products to the marketplace while lowering design and engineering costs for customers.

The operating results of SpaceClaim have been included in the Company's consolidated financial statements from April 30, 2014, the date of acquisition.



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The assets and liabilities of SpaceClaim have been recorded based upon management's estimates of their fair market values as of the acquisition date. The following tables summarize the fair value of consideration transferred and the preliminary fair values of identified assets acquired and liabilities assumed at the acquisition date:

## Fair Value of Consideration Transferred:

(in thousands)

|                                               |          |
|-----------------------------------------------|----------|
| Cash                                          | \$84,892 |
| ANSYS replacement stock options               | 68       |
| Total consideration transferred at fair value | \$84,960 |

## Recognized Amounts of Identifiable Assets Acquired and Liabilities Assumed:

(in thousands)

|                                               |          |   |
|-----------------------------------------------|----------|---|
| Cash                                          | \$723    |   |
| Accounts receivable and other tangible assets | 1,857    |   |
| Developed technology (10-year life)           | 15,800   |   |
| Customer relationships (6-year life)          | 9,400    |   |
| Trade name (6-year life)                      | 1,300    |   |
| Contract backlog (6-year life)                | 550      |   |
| Non-compete agreement (2-year life)           | 300      |   |
| Net deferred tax assets                       | 5,259    |   |
| Accounts payable and other liabilities        | (2,011)  | ) |
| Deferred revenue                              | (700)    | ) |
| Total identifiable net assets                 | \$32,478 |   |
| Goodwill                                      | \$52,482 |   |

The goodwill, which is not tax-deductible, is attributed to intangible assets that do not qualify for separate recognition, including the assembled workforce of the acquired business and the synergies expected to arise as a result of the acquisition of SpaceClaim.

The fair values of the assets acquired and liabilities assumed are based on preliminary calculations and the estimates and assumptions for these items are subject to change as additional information about what was known and knowable at the acquisition date is obtained and assessed during the measurement period (up to one year from the acquisition date). During the period since the SpaceClaim acquisition date, the Company increased the fair values of net deferred tax assets from \$4.1 million to \$5.3 million, increased the fair value of deferred revenue from \$0.5 million to \$0.7 million, and increased the fair values of accounts payable and other liabilities from \$1.9 million to \$2.0 million, with the offset recorded as a \$0.9 million decrease to goodwill. These adjustments were based on refinements to assumptions used in the preliminary valuation of deferred revenue, accounts payable and other liabilities, and information about what was known and knowable as of the acquisition date in the calculation of the net deferred tax assets.

Pro forma results of operations have not been presented as the effects of the SpaceClaim business combination were not material to the Company's consolidated results of operations.

In valuing deferred revenue on the SpaceClaim balance sheet as of the acquisition date, the Company applied the fair value provisions applicable to the accounting for business combinations. Acquired deferred revenue with a historical carrying value of \$3.3 million was ascribed a fair value of \$0.7 million on the opening balance sheet. As a result, the Company's post-acquisition revenue will be less than the sum of what would have otherwise been reported by ANSYS and SpaceClaim absent the acquisition. The impact on reported revenue for the twelve months ended December 31, 2014 was \$2.0 million. The expected impact on reported revenue is \$0.6 million for the year ending December 31, 2015.

## Reaction Design

On January 3, 2014, the Company completed the acquisition of Reaction Design, a leading developer of chemistry simulation software. Under the terms of the agreement, ANSYS acquired Reaction Design for a purchase price of \$19.1 million in cash. Reaction Design's solutions enable transportation manufacturers and energy companies to rapidly achieve their clean technology goals by automating the analysis of chemical processes via computer

simulation and modeling solutions.

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The operating results of Reaction Design have been included in the Company's consolidated financial statements since the date of acquisition, January 3, 2014. The total consideration transferred was allocated to the assets and liabilities of Reaction Design based on management's estimates of the fair values of the assets acquired and the liabilities assumed. The allocation included \$7.0 million to identifiable intangible assets, including core technology, customer lists and trade names, to be amortized over periods between two and eleven years, and \$8.6 million to goodwill, which is not tax-deductible. The fair values of the assets acquired and liabilities assumed are based on preliminary calculations and the estimates and assumptions for these items are subject to change as additional information about what was known and knowable at the acquisition date is obtained and assessed during the measurement period (up to one year from the acquisition date). During the period since the Reaction Design acquisition date, the Company decreased the fair values of identifiable finite-lived intangible assets from \$9.2 million to \$7.0 million and increased the fair values of net deferred tax assets from \$2.3 million to \$2.6 million, with the offset recorded as an increase to goodwill of \$1.3 million and a reduction in noncontrolling interest of \$0.6 million. These adjustments were based on refinements to assumptions used in the preliminary valuation of intangible assets and information about what was known and knowable as of the acquisition date in the calculation of the net deferred tax assets.

Pro forma results of operations have not been presented as the effects of the Reaction Design business combination were not material to the Company's consolidated results of operations.

In valuing deferred revenue on the Reaction Design balance sheet as of the acquisition date, the Company applied the fair value provisions applicable to the accounting for business combinations. Acquired deferred revenue with a historical carrying value of \$2.3 million was ascribed no fair value on the opening balance sheet. As a result, the Company's post-acquisition revenue will be less than the sum of what would have otherwise been reported by ANSYS and Reaction Design absent the acquisition. The impact on reported revenue for the twelve months ended December 31, 2014 was \$2.0 million. The expected impact on reported revenue is \$0.2 million for the year ending December 31, 2015.

### **EVEN - Evolutionary Engineering AG**

On April 2, 2013, the Company acquired EVEN, a leading provider of composite analysis and optimization technology. Under the terms of the agreement, ANSYS acquired EVEN for a purchase price of \$8.1 million, which consisted of \$4.5 million in cash and an estimated \$3.6 million of contingent consideration based on EVEN's achievement of certain technical milestones during the three years following the acquisition date. The Company made its first contingent payment totaling \$1.6 million in March 2014.

The total consideration transferred was allocated to the assets and liabilities of EVEN based on management's estimates of the fair values of the assets acquired and the liabilities assumed. The allocation included \$2.6 million to identifiable intangible assets, including customer lists and core technology, to be amortized over a period of five years, and \$5.9 million to goodwill, which is not tax-deductible. The fair values of the assets acquired and liabilities assumed are based on management's estimates of their fair values as of the acquisition date.

### **Esterel Technologies, S.A.**

On August 1, 2012, the Company completed its acquisition of Esterel, a leading provider of embedded software simulation solutions for mission critical applications. Under the terms of the agreement, ANSYS acquired Esterel for a purchase price of \$58.2 million, which included \$13.1 million in acquired cash. The agreement also includes retention provisions for key members of Esterel's management and employees, which are accounted for outside of the business combination. The Company funded the transaction entirely with existing cash balances. The operating results of Esterel have been included in the Company's consolidated financial statements since the date of acquisition, August 1, 2012.

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The assets and liabilities of Esterel have been recorded based upon management's estimates of their fair market values as of the acquisition date. The following tables summarize the fair value of consideration transferred and the fair values of identified assets acquired and liabilities assumed at the acquisition date:

## Fair Value of Consideration Transferred:

(in thousands)

|      |          |
|------|----------|
| Cash | \$58,150 |
|------|----------|

## Recognized Amounts of Identifiable Assets Acquired and Liabilities Assumed:

(in thousands)

|                                               |          |   |
|-----------------------------------------------|----------|---|
| Cash                                          | \$13,075 |   |
| Accounts receivable and other tangible assets | 4,737    |   |
| Customer relationships (12-year life)         | 21,421   |   |
| Developed software (10-year life)             | 10,717   |   |
| Platform trade name (10-year life)            | 2,695    |   |
| Accounts payable and other liabilities        | (4,707)  | ) |
| Deferred revenue                              | (1,139)  | ) |
| Net deferred tax liabilities                  | (7,096)  | ) |
| Total identifiable net assets                 | \$39,703 |   |
| Goodwill                                      | \$18,447 |   |

The goodwill, which is not tax-deductible, is attributed to intangible assets that do not qualify for separate recognition, including the assembled workforce of the acquired business and the synergies expected to arise as a result of the acquisition of Esterel. During the one-year measurement period since the Esterel acquisition date, the Company decreased the value of net deferred tax liabilities from \$10.0 million to \$7.1 million, with the offset recorded as a \$2.9 million decrease to goodwill. This adjustment was based on additional information regarding what was known and knowable in the calculation of the net deferred tax liabilities as of the acquisition date.

In valuing deferred revenue on the Esterel balance sheet as of the acquisition date, the Company applied the fair value provisions applicable to the accounting for business combinations. Acquired deferred revenue with a historical carrying value of \$12.1 million was ascribed a fair value of \$1.1 million on the opening balance sheet. As a result, the Company's post-acquisition revenue was less than the sum of what would have otherwise been reported by ANSYS and Esterel absent the acquisition. The impact on reported revenue for the twelve months ended December 31, 2014 was \$1.4 million.

## 4. Other Receivables and Current Assets

The Company's other receivables and current assets comprise the following balances:

| (in thousands)                                              | December 31,<br>2014 | December 31,<br>2013 |
|-------------------------------------------------------------|----------------------|----------------------|
| Receivables related to unrecognized revenue                 | \$152,830            | \$140,051            |
| Income taxes receivable, including overpayments and refunds | 18,276               | 42,357               |
| Prepaid expenses and other current assets                   | 21,202               | 18,326               |
| Total other receivables and current assets                  | \$192,308            | \$200,734            |

Receivables for unrecognized revenue represent the current portion of billings made for annual lease licenses and software maintenance that has not yet been recognized as revenue.

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## 5. Property and Equipment

Property and equipment consists of the following:

| (in thousands)                                  | Estimated Useful<br>Lives | December 31, |          |
|-------------------------------------------------|---------------------------|--------------|----------|
|                                                 |                           | 2014         | 2013     |
| Equipment                                       | 1-10 years                | \$75,500     | \$68,970 |
| Computer software                               | 1-5 years                 | 30,007       | 27,647   |
| Buildings                                       | 10-40 years               | 24,526       | 24,325   |
| Leasehold improvements                          | 1-15 years                | 10,368       | 8,125    |
| Furniture                                       | 1-13 years                | 8,475        | 4,973    |
| Land                                            |                           | 2,140        | 2,178    |
| Property and equipment, gross                   |                           | 151,016      | 136,218  |
| Less: Accumulated depreciation and amortization |                           | (86,373)     | (75,680) |
| Property and equipment, net                     |                           | \$64,643     | \$60,538 |

Depreciation and amortization expense related to property and equipment, including the amounts acquired through capital lease commitments, was \$20.9 million, \$19.9 million and \$17.4 million for the years ended December 31, 2014, 2013 and 2012, respectively.

## 6. Goodwill and Intangible Assets

Goodwill represents the excess of the fair value of the consideration transferred over the value of net tangible and identifiable intangible assets of acquired businesses. Identifiable intangible assets acquired in business combinations are recorded based on their fair values on the date of acquisition.

During the first quarter of 2014, the Company completed the annual impairment test for goodwill and indefinite-lived intangible assets and determined that these assets had not been impaired as of the test date, January 1, 2014. No events occurred or circumstances changed during the year ended December 31, 2014 that would indicate that the fair values of the Company's reporting units and indefinite-lived intangible assets are below their carrying amounts.

The Company's intangible assets and estimated useful lives are classified as follows:

| (in thousands)                                          | December 31, 2014           |                             | December 31, 2013           |                             |
|---------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                                                         | Gross<br>Carrying<br>Amount | Accumulated<br>Amortization | Gross<br>Carrying<br>Amount | Accumulated<br>Amortization |
| Finite-lived intangible assets:                         |                             |                             |                             |                             |
| Developed software and core technologies (3 – 11 years) | \$321,076                   | \$(227,298)                 | \$300,493                   | \$(203,236)                 |
| Customer lists and contract backlog (5 – 15 years)      | 221,159                     | (121,380)                   | 237,173                     | (119,368)                   |
| Trade names (2 – 10 years)                              | 114,432                     | (63,082)                    | 102,651                     | (50,990)                    |
| Non-compete agreement (2 years)                         | 300                         | (52)                        | —                           | —                           |
| Total                                                   | \$656,967                   | \$(411,812)                 | \$640,317                   | \$(373,594)                 |
| Indefinite-lived intangible assets:                     |                             |                             |                             |                             |
| Trade names                                             | \$14,157                    |                             | \$24,667                    |                             |

The decrease in unamortized trade names in the table above was due to the movement of certain trade names to amortized intangible assets. Amortization expense for the intangible assets reflected above was \$61.0 million, \$60.7 million and \$67.3 million for the years ended December 31, 2014, 2013 and 2012, respectively.

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As of December 31, 2014, estimated future amortization expense for the intangible assets reflected above is as follows:

(in thousands)

|                                                 |           |
|-------------------------------------------------|-----------|
| 2015                                            | \$56,576  |
| 2016                                            | 46,979    |
| 2017                                            | 43,824    |
| 2018                                            | 30,235    |
| 2019                                            | 16,817    |
| Thereafter                                      | 50,724    |
| Total intangible assets subject to amortization | 245,155   |
| Indefinite-lived trade names                    | 14,157    |
| Other intangible assets, net                    | \$259,312 |

The changes in goodwill during the years ended December 31, 2014 and 2013 are as follows:

|                                |             |             |
|--------------------------------|-------------|-------------|
| (in thousands)                 | 2014        | 2013        |
| Beginning balance - January 1  | \$1,255,704 | \$1,251,247 |
| Acquisitions                   | 61,103      | 5,936       |
| Currency translation and other | (4,625)     | (1,479)     |
| Ending balance - December 31   | \$1,312,182 | \$1,255,704 |

#### 7. Long-Term Debt

The Company paid the outstanding balance on its term loan at maturity on July 31, 2013. For the years ended December 31, 2013 and 2012, the Company recorded interest expense related to the term loan at average interest rates of 1.04% and 1.22%, respectively. The interest expense on the term loan and amortization related to debt financing costs are as follows:

| (in thousands)          | Year Ended December 31, |              |                  |              |
|-------------------------|-------------------------|--------------|------------------|--------------|
|                         | 2013                    |              | 2012             |              |
|                         | Interest Expense        | Amortization | Interest Expense | Amortization |
| July 31, 2008 term loan | \$230                   | \$149        | \$1,342          | \$698        |

#### 8. Fair Value Measurement

The valuation hierarchy for disclosure of assets and liabilities reported at fair value prioritizes the inputs for such valuations into three broad levels:

Level 1: quoted prices (unadjusted) in active markets for identical assets or liabilities;

Level 2: quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument; or

Level 3: unobservable inputs based on the Company's own assumptions used to measure assets and liabilities at fair value.

A financial asset's or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement.

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The following tables provide the assets and liabilities carried at fair value and measured on a recurring basis:

|                          |                   | Fair Value Measurements at Reporting Date Using: |                                         |                                           |
|--------------------------|-------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------|
| (in thousands)           | December 31, 2014 | Quoted Prices in Active Markets (Level 1)        | Significant Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) |
| Assets                   |                   |                                                  |                                         |                                           |
| Cash equivalents         | \$281,333         | \$281,333                                        | \$ —                                    | \$ —                                      |
| Short-term investments   | \$714             | \$ —                                             | \$ 714                                  | \$ —                                      |
| Liabilities              |                   |                                                  |                                         |                                           |
| Contingent consideration | \$(2,621 )        | \$ —                                             | \$ —                                    | \$(2,621 )                                |
|                          |                   | Fair Value Measurements at Reporting Date Using: |                                         |                                           |
| (in thousands)           | December 31, 2013 | Quoted Prices in Active Markets (Level 1)        | Significant Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) |
| Assets                   |                   |                                                  |                                         |                                           |
| Cash equivalents         | \$303,138         | \$303,138                                        | \$ —                                    | \$ —                                      |
| Short-term investments   | \$500             | \$ —                                             | \$ 500                                  | \$ —                                      |
| Liabilities              |                   |                                                  |                                         |                                           |
| Contingent consideration | \$(7,389 )        | \$ —                                             | \$ —                                    | \$(7,389 )                                |
| Deferred compensation    | \$(704 )          | \$ —                                             | \$ —                                    | \$(704 )                                  |

The cash equivalents in the preceding tables represent money market mutual funds.

The short-term investments in the preceding tables represent deposits held by certain foreign subsidiaries of the Company. The deposits have fixed interest rates with maturity dates ranging from three months to one year.

The contingent consideration in the table above represents potential future payments related to the EVEN and Apache acquisitions in accordance with the respective agreements. The deferred compensation in the table above is attributable to a retention agreement for a key member of Apache management, and was accounted for outside of that business combination. The net present value calculations for the contingent consideration and deferred compensation include significant unobservable inputs in the assumption that all remaining payments will be made, and therefore the liabilities were classified as Level 3 in the fair value hierarchy.

The following table presents the changes during the years ended December 31, 2014 and 2013 in the Company's Level 3 liabilities for contingent consideration and deferred compensation that are measured at fair value on a recurring basis:

|                                                                     |  | Fair Value Measurement Using Significant Unobservable Inputs |                       |
|---------------------------------------------------------------------|--|--------------------------------------------------------------|-----------------------|
| (in thousands)                                                      |  | Contingent Consideration                                     | Deferred Compensation |
| Balance as of January 1, 2013                                       |  | \$6,436                                                      | \$1,394               |
| EVEN contingent consideration                                       |  | 3,597                                                        | —                     |
| Contingent payments                                                 |  | (3,288 )                                                     | (712 )                |
| Interest expense and foreign exchange activity included in earnings |  | 644                                                          | 22                    |
| Balance as of December 31, 2013                                     |  | \$7,389                                                      | \$704                 |
| Contingent payments                                                 |  | (4,866 )                                                     | (712 )                |
| Interest expense and foreign exchange activity included in earnings |  | 98                                                           | 8                     |
| Balance as of December 31, 2014                                     |  | \$2,621                                                      | \$ —                  |

The final payment related to the retention of a key member of Apache management was paid in the third quarter of 2014. As a result of making this final payment, the Company no longer has a deferred compensation liability at December 31, 2014.



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The carrying values of cash, accounts receivable, accounts payable, accrued expenses, other accrued liabilities and short-term obligations approximate their fair values because of their short-term nature.

## 9. Income Taxes

Income before income taxes includes the following components:

|                | Year Ended December 31, |           |           |
|----------------|-------------------------|-----------|-----------|
| (in thousands) | 2014                    | 2013      | 2012      |
| Domestic       | \$291,042               | \$272,569 | \$234,497 |
| Foreign        | 57,097                  | 49,920    | 59,050    |
| Total          | \$348,139               | \$322,489 | \$293,547 |

The provision for income taxes is composed of the following:

|                | Year Ended December 31, |          |          |
|----------------|-------------------------|----------|----------|
| (in thousands) | 2014                    | 2013     | 2012     |
| Current:       |                         |          |          |
| Federal        | \$80,620                | \$69,268 | \$79,028 |
| State          | 7,192                   | 7,197    | 7,886    |
| Foreign        | 24,495                  | 24,722   | 22,046   |
| Deferred:      |                         |          |          |
| Federal        | (18,536)                | (23,438) | (21,026) |
| State          | (1,915)                 | (2,187)  | (3,913)  |
| Foreign        | 1,593                   | 1,600    | 6,043    |
| Total          | \$93,449                | \$77,162 | \$90,064 |

The reconciliation of the U.S. federal statutory tax rate to the consolidated effective tax rate is as follows:

|                                             | Year Ended December 31, |        |        |   |
|---------------------------------------------|-------------------------|--------|--------|---|
|                                             | 2014                    | 2013   | 2012   |   |
| Federal statutory tax rate                  | 35.0                    | % 35.0 | % 35.0 | % |
| State income taxes, net of federal benefit  | 1.2                     | 1.1    | 1.2    |   |
| Stock-based compensation                    | 0.6                     | 0.9    | 1.0    |   |
| Net (benefit) tax of unrepatriated earnings | (0.3)                   | (0.9)  | 0.7    |   |
| Foreign rate differential                   | (0.7)                   | (0.9)  | (1.9)  | ) |
| Uncertain tax positions                     | (0.9)                   | (3.7)  | 0.3    |   |
| Research and development credits            | (1.1)                   | (2.0)  | (0.1)  | ) |
| Domestic production activity benefit        | (3.5)                   | (3.3)  | (3.3)  | ) |
| Benefit from restructuring activities       | (4.1)                   | (2.8)  | (3.1)  | ) |
| Other                                       | 0.6                     | 0.5    | 0.9    |   |
|                                             | 26.8                    | % 23.9 | % 30.7 | % |

In general, it is the practice and intention of the Company to repatriate previously taxed earnings and to reinvest all other earnings of its non-U.S. subsidiaries. The Company has not made a provision for U.S. taxes on \$216.0 million, representing the excess of the amount for financial reporting over the tax bases of investments in foreign subsidiaries that are essentially permanent in duration. Generally, such amounts become subject to U.S. taxation upon the remittance of dividends and under certain other circumstances. The residual U.S. tax cost associated with this difference is estimated to be \$22.9 million.

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The components of deferred tax assets and liabilities are as follows:

| (in thousands)                        | December 31, |            |
|---------------------------------------|--------------|------------|
|                                       | 2014         | 2013       |
| Deferred tax assets:                  |              |            |
| Net operating loss carryforwards      | \$42,060     | \$26,204   |
| Stock-based compensation              | 23,331       | 20,006     |
| Employee benefits                     | 20,034       | 18,824     |
| Uncertain tax positions               | 8,545        | 7,977      |
| Deferred revenue                      | 6,533        | 7,816      |
| Research and development credits      | 4,349        | 2,331      |
| Allowance for doubtful accounts       | 1,806        | 2,014      |
| Other                                 | 2,892        | 3,521      |
| Valuation allowance                   | (130)        | (392)      |
|                                       | 109,420      | 88,301     |
| Deferred tax liabilities:             |              |            |
| Other intangible assets               | (92,703)     | (106,115)  |
| Property and equipment                | (4,652)      | (4,556)    |
| Unremitted foreign earnings           | (15)         | (115)      |
|                                       | (97,370)     | (110,786)  |
| Net deferred tax assets (liabilities) | \$12,050     | \$(22,485) |

As of December 31, 2014, the Company had federal net operating loss carryforwards of \$45.3 million. These losses expire between 2020 - 2034, and are subject to limitations on their utilization. Deferred tax assets of \$1.1 million have been recorded for state operating loss carryforwards. These losses expire between 2015 - 2034, and are subject to limitations on their utilization. The Company had total foreign net operating loss carryforwards of \$81.2 million, of which \$29.9 million are not currently subject to expiration dates. The remainder, \$51.3 million, expires between 2019 - 2023. The Company had tax credit carryforwards of \$6.0 million, of which \$4.2 million are subject to limitations on their utilization. Approximately \$2.0 million of these tax credit carryforwards are not currently subject to expiration dates. The remainder, \$4.0 million, expires in various years between 2015 - 2034.

In December 2013, the Company received notice from the Internal Revenue Service that the Joint Committee on Taxation took no exception to the Company's tax returns that were filed for 2009 and 2010. An \$11.0 million tax benefit was recognized in the Company's 2013 financial results as the Company has effectively settled uncertainty regarding refund claims filed in connection with these returns.

The following is a reconciliation of the total amounts of unrecognized tax benefits:

| (in thousands)                                                     | Year Ended December 31, |          |          |
|--------------------------------------------------------------------|-------------------------|----------|----------|
|                                                                    | 2014                    | 2013     | 2012     |
| Unrecognized tax benefit as of January 1                           | \$19,590                | \$37,203 | \$31,582 |
| Acquired unrecognized tax benefit                                  | —                       | —        | 3,845    |
| Gross increases—tax positions in prior period                      | 488                     | 320      | 2,048    |
| Gross decreases—tax positions in prior period                      | (3,715)                 | (18,058) | (2,167)  |
| Gross increases—tax positions in current period                    | 2,513                   | 2,036    | 2,660    |
| Reductions due to a lapse of the applicable statute of limitations | (1,924)                 | (1,734)  | (1,314)  |
| Changes due to currency fluctuation                                | (610)                   | 20       | 625      |
| Settlements                                                        | —                       | (197)    | (76)     |
| Unrecognized tax benefit as of December 31                         | \$16,342                | \$19,590 | \$37,203 |

The Company believes that it is reasonably possible that approximately \$2.5 million of uncertain tax positions may be resolved within the next twelve months as a result of settlement with a taxing authority or a lapse of the statute of limitations. Of the total unrecognized tax benefit as of December 31, 2014, \$12.2 million would affect the effective tax rate, if recognized.

The Company recognizes interest and penalties related to income taxes as income tax expense. During the year ended December 31, 2014, the Company recorded \$0.1 million of interest expense and \$0.1 million of penalties related to uncertain

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tax positions. As of both December 31, 2014 and 2013, the Company accrued a liability for penalties of \$1.6 million and interest of \$2.7 million.

The Company is subject to taxation in the U.S. and various states and foreign jurisdictions. The Company's 2011, 2013 and 2014 tax years are open to examination by the Internal Revenue Service. The Company also has various foreign and state tax filings subject to examination for various years. Except as discussed in Note 19 to the consolidated financial statements included in Part IV, Item 15 of this Annual Report on Form 10-K, the Company does not expect foreign or state examinations to result in a material change to the consolidated financial statements.

### 10. Pension and Profit-Sharing Plans

The Company has a 401(k)/profit-sharing plan for all qualifying salaried domestic employees that permits participants to make contributions by salary reduction pursuant to Section 401(k) of the Internal Revenue Code. The Company makes matching contributions on behalf of each eligible participant in an amount equal to 100% of the first 3% and an additional 25% of the next 5%, for a maximum total of 4.25% of the employee's compensation. The Company may make a discretionary contribution based on the participant's eligible compensation, provided the employee is employed at the end of the year and has worked at least 1,000 hours. The Company also maintains various defined contribution and defined benefit pension arrangements for its international employees. The Company funds the foreign defined benefit and contribution plans based on the minimum required deposits according to the local statutory requirements. The unfunded portion of the defined benefit obligation for each plan is accrued in other long-term liabilities. Expenses related to the Company's retirement programs were \$8.9 million in 2014, \$8.0 million in 2013 and \$7.1 million in 2012.

### 11. Non-Compete and Employment Agreements

Employees of the Company have signed agreements under which they have agreed not to disclose trade secrets or confidential information and, where legally permitted, that restrict engagement in or connection with any business that is competitive with the Company anywhere in the world while employed by the Company (and, in some cases, for specified periods thereafter), and that any products or technology created by them during their term of employment are the property of the Company. In addition, the Company requires all channel partners to enter into agreements not to disclose the Company's trade secrets and other proprietary information.

The Company had an employment agreement with the Chairman of its Board of Directors. The Chairman ceased to be an employee of the Company on December 31, 2014. In connection with the end of his employment and pursuant to the terms of his employment agreement, the former Chairman received a \$300,000 lump sum severance payment and twelve months' continued health coverage benefits.

The Company has an employment agreement with the Chief Executive Officer. This agreement provides for, among other things, minimum severance payments equal to his base salary, target bonus and then-existing benefits through the earlier of the second anniversary of the termination date if the Chief Executive Officer is terminated without cause or when he accepts other employment. The Chief Executive Officer is subject to a two-year restriction on competition following termination of employment under the circumstances described in the contract.

The Company also has employment agreements with several other employees, primarily in foreign jurisdictions. The terms of these employment agreements generally include annual compensation, severance payment provisions and non-compete clauses.

### 12. Stock-Based Compensation

The Company has a stock option and grant plan—the Fourth Amended and Restated 1996 Stock Option and Grant Plan ("Stock Plan"). The Stock Plan, as amended, authorizes the grant of up to 30,400,000 shares of the Company's common stock in the form of: (i) incentive stock options ("ISOs"), (ii) nonqualified stock options, (iii) common stock with or without vesting or other restrictions, (iv) common stock upon the attainment of specified performance goals, (v) restricted stock awards, (vi) the right to receive cash dividends with the holders of the common stock as if the recipient held a specified number of shares of the common stock, (vii) deferred stock awards, (viii) stock appreciation rights and (ix) cash-based awards.



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The Stock Plan provides that: (i) the exercise price of an ISO must be no less than the fair value of the stock at the date of grant and (ii) the exercise price of an ISO held by an optionee who possesses more than 10% of the total combined voting power of all classes of stock must be no less than 110% of the fair market value of the stock at the time of grant. The Compensation Committee of the Board of Directors has the authority to set expiration dates no later than ten years from the date of grant (or five years for an optionee who meets the 10% criterion), payment terms and other provisions for each grant. The majority of options granted have a four-year vesting period. Shares associated with unexercised options or reacquired shares of common stock (except those shares withheld as a result of tax withholding or net issuance) become available for option grants and common stock issuances under the Stock Plan. The Compensation Committee of the Board of Directors may, at its sole discretion, accelerate or extend the date or dates on which all or any particular award or awards granted under the Stock Plan may vest or be exercised.

In the event of a "sale event" as defined in the Stock Plan, all outstanding awards will be assumed or continued by the successor entity, with appropriate adjustment in the awards to reflect the transaction. In such event, except as the Compensation Committee may otherwise specify with respect to particular awards in the award agreements, if the service relationship of the holder of an award is terminated without cause within 18 months after the sale event, then all awards held by such holder will become fully vested and exercisable at that time. If there is a sale event in which the successor entity refuses to assume or continue outstanding awards, then subject to the consummation of the sale event, all awards with time-based vesting conditions will become fully vested and exercisable at the effective time of the sale event and all awards with performance-based vesting conditions may become vested and exercisable in accordance with the award agreements at the discretion of the Compensation Committee. If awards are not assumed or continued after a sale event, then all such awards will terminate at the time of the sale event. In the event of the termination of stock options or stock appreciation rights in connection with a sale event, the Compensation Committee may either make or provide for a cash payment to the holders of such awards equal to the difference between the per share transaction consideration and the exercise price of such awards or permit each holder to have at least a 15-day period to exercise such awards prior to their termination.

The Company currently issues shares related to exercised stock options or vested awards from its existing pool of treasury shares and has no specific policy to repurchase treasury shares as stock options are exercised or as awards vest. If the treasury pool is depleted, the Company will issue new shares.

Total stock-based compensation expense recognized for the years ended December 31, 2014, 2013 and 2012 is as follows:

| (in thousands, except per share amounts)       | Year Ended December 31, |           |           |
|------------------------------------------------|-------------------------|-----------|-----------|
|                                                | 2014                    | 2013      | 2012      |
| Cost of sales:                                 |                         |           |           |
| Software licenses                              | \$1,776                 | \$1,349   | \$1,478   |
| Maintenance and service                        | 2,035                   | 2,293     | 2,232     |
| Operating expenses:                            |                         |           |           |
| Selling, general and administrative            | 17,073                  | 16,847    | 15,278    |
| Research and development                       | 15,977                  | 14,809    | 13,427    |
| Stock-based compensation expense before taxes  | 36,861                  | 35,298    | 32,415    |
| Related income tax benefits                    | (10,927)                | ) (11,096 | ) (8,509  |
| Stock-based compensation expense, net of taxes | \$25,934                | \$24,202  | \$23,906  |
| Net impact on earnings per share:              |                         |           |           |
| Basic earnings per share                       | \$(0.28                 | ) \$(0.26 | ) \$(0.26 |
| Diluted earnings per share                     | \$(0.28                 | ) \$(0.25 | ) \$(0.25 |

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Information regarding stock option transactions is summarized below:

|                                           | Year Ended December 31,<br>2014 |                                          | 2013    |                                          | 2012    |                                          |
|-------------------------------------------|---------------------------------|------------------------------------------|---------|------------------------------------------|---------|------------------------------------------|
| (options in thousands)                    | Options                         | Weighted<br>Average<br>Exercise<br>Price | Options | Weighted<br>Average<br>Exercise<br>Price | Options | Weighted<br>Average<br>Exercise<br>Price |
| Outstanding, beginning of year            | 6,166                           | \$44.77                                  | 7,122   | \$42.85                                  | 7,545   | \$35.10                                  |
| Granted                                   | 150                             | \$81.09                                  | 103     | \$81.87                                  | 1,109   | \$67.53                                  |
| Issued pursuant to SpaceClaim acquisition | 21                              | \$23.26                                  | —       | \$—                                      | —       | \$—                                      |
| Exercised                                 | (1,266)                         | ) \$31.36                                | (993)   | ) \$34.26                                | (1,464) | ) \$21.85                                |
| Forfeited                                 | (139)                           | ) \$61.11                                | (66)    | ) \$53.75                                | (68)    | ) \$36.90                                |
| Outstanding, end of year                  | 4,932                           | \$48.76                                  | 6,166   | \$44.77                                  | 7,122   | \$42.85                                  |
| Vested and Exercisable, end of year       | 3,958                           | \$44.22                                  | 4,351   | \$38.18                                  | 4,094   | \$33.91                                  |

|                                                        | 2014      | 2013      | 2012      |
|--------------------------------------------------------|-----------|-----------|-----------|
| Weighted Average Remaining Contractual Term (in years) |           |           |           |
| Outstanding                                            | 5.53      | 5.99      | 6.78      |
| Vested and Exercisable                                 | 5.00      | 5.13      | 5.48      |
| Aggregate Intrinsic Value (in thousands)               |           |           |           |
| Outstanding                                            | \$163,932 | \$261,601 | \$174,383 |
| Vested and Exercisable                                 | \$149,536 | \$213,304 | \$136,851 |

Historical and future expected forfeitures have not been significant and, as a result, the outstanding option amounts reflected in the tables above approximate the options expected to vest.

The fair value of each option grant is estimated on the date of grant, or date of acquisition for options issued in a business combination, using the Black-Scholes option pricing model, which was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. The Company's options have characteristics significantly different from those of traded options, and changes in input assumptions can materially affect the fair value estimates. The interest rates used were determined by using the five-year Treasury Note yield at the date of grant or date of acquisition for options issued in a business combination. The volatility was determined based on the historic volatility of the Company's stock during the preceding six years for 2014, 2013 and 2012.

The table below presents the weighted average input assumptions used and resulting fair values for options granted or issued in business combinations during each respective year:

|                                       | Year Ended December 31, |                |                |
|---------------------------------------|-------------------------|----------------|----------------|
|                                       | 2014                    | 2013           | 2012           |
| Risk-free interest rate               | 1.49% to 1.76%          | 0.68% to 1.48% | 0.59% to 1.04% |
| Expected dividend yield               | —%                      | —%             | —%             |
| Expected volatility                   | 35%                     | 37%            | 38%            |
| Expected term                         | 5.7 years               | 5.8 years      | 6.0 years      |
| Weighted average fair value per share | \$32.26                 | \$29.85        | \$24.82        |

As stock-based compensation expense recognized in the consolidated statements of income is based on awards ultimately expected to vest, it must be reduced for estimated forfeitures. Forfeitures are estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. The effect of pre-vesting forfeitures on the Company's recorded expense has historically been negligible due to the relatively low turnover of stock option holders.





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The Company's determination of fair value of share-based payment awards on the date of grant using an option pricing model is affected by the Company's stock price as well as assumptions regarding a number of variables. The total estimated grant date fair values of stock options that vested during the years ended December 31, 2014, 2013 and 2012 were \$19.5 million, \$24.7 million and \$23.3 million, respectively. As of December 31, 2014, total unrecognized estimated compensation cost related to unvested stock options granted prior to that date was \$21.3 million, which is expected to be recognized over a weighted average period of 1.5 years. The total intrinsic values of stock options exercised during the years ended December 31, 2014, 2013 and 2012 were \$60.6 million, \$45.2 million and \$64.7 million, respectively. As of December 31, 2014, 1.0 million unvested options with an aggregate intrinsic value of \$20.3 million are expected to vest and have a weighted average exercise price of \$67.22 and a weighted average remaining contractual term of 7.7 years. The Company recorded cash received from the exercise of stock options of \$39.7 million and tax benefits related to stock activity of \$25.9 million for the year ended December 31, 2014.

Information regarding stock options outstanding as of December 31, 2014 is summarized below:

| Range of Exercise Prices | Options Outstanding |                                                     |                                 | Options Exercisable |                                 |
|--------------------------|---------------------|-----------------------------------------------------|---------------------------------|---------------------|---------------------------------|
|                          | Options             | Weighted Average Remaining Contractual Life (years) | Weighted Average Exercise Price | Options             | Weighted Average Exercise Price |
| \$5.91 - \$28.40         | 1,022               | 3.52                                                | \$24.51                         | 998                 | \$24.54                         |
| \$30.02 - \$40.89        | 1,029               | 3.81                                                | \$39.60                         | 1,029               | \$39.60                         |
| \$41.33 - \$58.67        | 1,703               | 6.15                                                | \$53.92                         | 1,460               | \$53.15                         |
| \$60.49 - \$88.35        | 1,178               | 7.81                                                | \$70.37                         | 471                 | \$68.34                         |

Under the terms of the ANSYS, Inc. Long-Term Incentive Plan, the Company issues various restricted stock awards, which may have a single or combination of a market condition, an operating performance condition or a service condition. In the first quarters of 2014, 2013 and 2012, the Company granted 47,000, 94,300 and 100,000 performance-based restricted stock units with a market condition, respectively. The percentage of the award that vests is based on the Company's performance as measured by total shareholder return relative to the median percentage appreciation of the NASDAQ Composite Index over a specified measurement period, subject to each participant's continued employment with the Company through the conclusion of the measurement period. The measurement period for the restricted stock units granted pursuant to the Long-Term Incentive Plan is a three-year period beginning January 1 of the year of the grant. Each restricted stock unit relates to one share of the Company's common stock. The weighted average fair value of each restricted stock unit granted in 2014, 2013 and 2012 was estimated on the grant date to be \$65.94, \$50.05 and \$33.16, respectively. The fair value of the restricted stock units was estimated using a Monte Carlo simulation model. The determination of the fair value of the awards was affected by the grant date and a number of variables, each of which has been identified in the chart below. Share-based compensation expense based on the fair value of the award is being recorded from the grant date through the conclusion of the three-year measurement period. Total compensation expense associated with the market condition awards recorded for the years ended December 31, 2014, 2013 and 2012 was \$2.5 million, \$3.6 million and \$2.6 million, respectively.

| Assumptions used in Monte Carlo lattice pricing model | Year Ended December 31, |           |           |
|-------------------------------------------------------|-------------------------|-----------|-----------|
|                                                       | 2014                    | 2013      | 2012      |
| Risk-free interest rate                               | 0.70%                   | 0.35%     | 0.16%     |
| Expected dividend yield                               | —%                      | —%        | —%        |
| Expected volatility—ANSYS Stock Price                 | 25%                     | 25%       | 28%       |
| Expected volatility—NASDAQ Composite Index            | 15%                     | 20%       | 20%       |
| Expected term                                         | 2.8 years               | 2.8 years | 2.8 years |
| Correlation factor                                    | 0.70                    | 0.70      | 0.75      |

During 2014, the Company issued 20,667 restricted stock awards with defined operating metrics and a weighted average grant date fair value of \$81.52. The grant date fair value of the awards is being recorded from the grant date through the conclusion of the measurement period associated with each operating metric based on management's

estimates concerning the probability of vesting. Total compensation expense associated with these awards recorded for the year ended December 31, 2014 was \$0.1 million.

In addition, in 2014, the Company granted 364,150 restricted stock units that will vest over a four-year period with a weighted average grant date fair value of \$82.13. Total compensation expense is being recorded over the four-year service period and was \$5.8 million for the year ended December 31, 2014.

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In accordance with the Apache merger agreement, the Company granted performance-based restricted stock units to key members of Apache management and employees. Vesting of the full award or a portion thereof was determined discretely for each of the three fiscal years based on the achievement of certain revenue and operating income targets by the Apache subsidiary, and the recipient's continued employment through the measurement period. The value of each restricted stock unit on the August 1, 2011 grant date was \$50.30, the closing price of ANSYS stock as of that date. Stock-based compensation expense based on the fair value of the awards was recorded from the January 1, 2012 service inception date through the conclusion of the three-year measurement period based on management's estimates concerning the probability of vesting. The performance targets were modified in March 2014 and the fair value of the modified restricted stock units was \$82.39. Total compensation expense associated with the awards recorded for the years ended December 31, 2014, 2013 and 2012, was \$4.7 million, \$3.8 million and \$3.9 million, respectively. For the year ended December 31, 2014, employees earned 56,731 restricted stock units, which will be issued in the first quarter of 2015.

The Company grants deferred stock units to non-affiliate Independent Directors, which are rights to receive shares of common stock upon termination of service as a Director. The deferred stock units are issued in arrears and vest immediately. As of December 31, 2014, 160,642 deferred stock units have been earned with the underlying shares remaining unissued until the service termination of the respective Director owners. Of this amount, 44,800 units were earned during the year ended December 31, 2014. Total compensation expense associated with the awards recorded for the years ended December 31, 2014, 2013 and 2012, was \$3.5 million, \$2.5 million and \$1.9 million, respectively.

### 13. Stock Repurchase Program

Under the Company's stock repurchase program, the Company repurchased shares as follows:

| (in thousands, except shares and per share data) | Year Ended December 31, |           |           |
|--------------------------------------------------|-------------------------|-----------|-----------|
|                                                  | 2014                    | 2013      | 2012      |
| Number of shares repurchased                     | 2,976,885               | 1,494,001 | 1,500,000 |
| Average price paid per share                     | \$78.54                 | \$77.73   | \$63.65   |
| Total cost                                       | \$233,793               | \$116,132 | \$95,477  |

As of December 31, 2014, 3.5 million shares remained available for repurchase under the Company's stock repurchase program. The Company repurchased an additional 0.9 million shares in January 2015, for a total cost of \$75.2 million. In February 2015, the Company's Board of Directors increased the number of shares authorized for repurchase to a total of 5.0 million shares under the program.

### 14. Employee Stock Purchase Plan

The Company's 1996 Employee Stock Purchase Plan (the "Purchase Plan") was adopted by the Board of Directors on April 19, 1996 and was subsequently approved by the Company's stockholders. The stockholders approved an amendment to the Purchase Plan on May 6, 2004 to increase the number of shares available for offerings to 1.6 million shares. The Purchase Plan was amended and restated in 2007. The Purchase Plan is administered by the Compensation Committee. Offerings under the Purchase Plan commence on each February 1 and August 1, and have a duration of six months. An employee who owns or is deemed to own shares of stock representing in excess of 5% of the combined voting power of all classes of stock of the Company may not participate in the Purchase Plan.

During each offering, an eligible employee may purchase shares under the Purchase Plan by authorizing payroll deductions of up to 10% of his or her cash compensation during the offering period. The maximum number of shares that may be purchased by any participating employee during any offering period is limited to 3,840 shares (as adjusted by the Compensation Committee from time to time). Unless the employee has previously withdrawn from the offering, his or her accumulated payroll deductions will be used to purchase common stock on the last business day of the period at a price equal to 90% of the fair market value of the common stock on the first or last day of the offering period, whichever is lower. Under applicable tax rules, an employee may purchase no more than \$25,000 worth of common stock in any calendar year. As of December 31, 2014, 1.3 million shares of common stock had been issued under the Purchase Plan. The total compensation expense recorded under the Purchase Plan during the years ended December 31, 2014, 2013 and 2012 was \$0.9 million, \$0.8 million and \$0.7 million, respectively.



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### 15. Leases

#### Office Space

The Company's executive offices and those related to certain domestic product development, marketing, production and administration are located in a 186,000 square foot office facility in Canonsburg, Pennsylvania. The term of the lease is 183 months, beginning on October 1, 2014. Absent the exercise of options in the lease for additional rentable space or early lease termination, the Company's base rent (inclusive of property taxes and certain operating expenses) will be \$4.3 million per annum for the first five years of the lease term, \$4.5 million per annum for years six through ten and \$4.7 million per annum for years eleven through fifteen. The Company incurred \$0.8 million in lease expense related to this facility during the year ended December 31, 2014.

The Company's corporate headquarters was previously located in a separate office facility, also in Canonsburg, Pennsylvania. The Company occupied this space until November 2014, and the lease term expired on December 31, 2014. Lease expense related to this facility was \$1.4 million in each of the years ended December 31, 2014, 2013 and 2012.

The Company leases a 52,000 square foot office facility in San Jose, California. In June 2012, the Company entered into a new lease for this property, with the lease term commencing July 1, 2012 and ending June 30, 2022. Total remaining base rent payments under the operating lease, absent the exercise of an early termination option, as of December 31, 2014 are \$7.5 million, of which \$0.9 million will be paid in 2015.

The Company has entered into various other noncancellable operating leases for office space.

Office space lease expense totaled \$15.8 million, \$14.1 million and \$13.7 million for the years ended December 31, 2014, 2013 and 2012, respectively. Future minimum lease payments, including termination fees, under noncancellable operating leases for office space in effect at December 31, 2014 are \$13.7 million in 2015, \$10.9 million in 2016, \$9.0 million in 2017, \$6.7 million in 2018 and \$6.4 million in 2019.

#### Sale-Leaseback Arrangement

The lease agreement terms for the new Canonsburg headquarters facility provide that the Company is responsible for paying the cost of certain tenant improvements that exceed an allowance to be paid by the landlord. There is no cap to the Company's obligation in excess of the landlord allowance. As a result, the Company was considered the owner of the building during the construction period and the lease was subject to sale-leaseback treatment.

The building was completed and delivered to the Company on October 1, 2014. The Company determined that the lease does not meet the criteria for capital lease treatment under the accounting guidance, and the Company does not have continuing involvement in the lease. As a result, the construction-in-progress asset and liability have been removed from the consolidated balance sheet as of December 31, 2014. The sale-leaseback treatment of the lease during the construction period did not have any impact on the Company's results of operations or cash flows.

### 16. Royalty Agreements

The Company has entered into various renewable, nonexclusive license agreements under which the Company has been granted access to the licensor's technology and the right to sell the technology in the Company's product line. Royalties are payable to developers of the software at various rates and amounts, which generally are based upon unit sales or revenue. Royalty fees are reported in cost of goods sold and were \$11.5 million, \$10.3 million and \$9.3 million for the years ended December 31, 2014, 2013 and 2012, respectively.

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## 17. Geographic Information

Revenue to external customers is attributed to individual countries based upon the location of the customer. Revenue by geographic area is as follows:

| (in thousands)      | Year Ended December 31, |           |           |
|---------------------|-------------------------|-----------|-----------|
|                     | 2014                    | 2013      | 2012      |
| United States       | \$320,327               | \$292,323 | \$265,436 |
| Japan               | 108,757                 | 108,064   | 122,437   |
| Germany             | 99,714                  | 93,525    | 82,008    |
| Canada              | 14,034                  | 14,163    | 12,384    |
| Other European      | 217,796                 | 201,614   | 177,069   |
| Other international | 175,393                 | 151,571   | 138,684   |
| Total revenue       | \$936,021               | \$861,260 | \$798,018 |

Property and equipment by geographic area is as follows:

| (in thousands)               | December 31, |          |
|------------------------------|--------------|----------|
|                              | 2014         | 2013     |
| United States                | \$49,957     | \$45,116 |
| India                        | 3,123        | 3,226    |
| Europe                       | 7,840        | 9,095    |
| Other international          | 3,723        | 3,101    |
| Total property and equipment | \$64,643     | \$60,538 |

## 18. Unconditional Purchase Obligations

The Company has entered into various unconditional purchase obligations which primarily include software licenses and long-term purchase contracts for network, communication and office maintenance services. The Company expended \$2.9 million, \$3.3 million and \$4.0 million related to unconditional purchase obligations that existed as of the beginning of each year for the years ended December 31, 2014, 2013 and 2012, respectively. Future expenditures under these obligations in effect as of December 31, 2014 are \$5.3 million in 2015, \$3.5 million in 2016 and \$1.1 million in 2017.

## 19. Contingencies and Commitments

The Company is subject to various investigations, claims and legal proceedings that arise in the ordinary course of business, including commercial disputes, labor and employment matters, tax audits, alleged infringement of intellectual property rights and other matters. In the opinion of the Company, the resolution of pending matters is not expected to have a material, adverse effect on the Company's consolidated results of operations, cash flows or financial position. However, each of these matters is subject to various uncertainties and it is possible that an unfavorable resolution of one or more of these proceedings could materially affect the Company's results of operations, cash flows or financial position.

An Indian subsidiary of the Company received a formal inquiry after a service tax audit was held in 2011. The Company could incur tax charges and related liabilities, including those related to the service tax audit case, of approximately \$6 million. The service tax issues raised in the Company's notice are very similar to the case, M/s Microsoft Corporation (I) (P) Ltd. Vs Commissioner of Service Tax, New Delhi, wherein the Delhi Customs, Excise and Service Tax Appellate Tribunal (CESTAT) has passed a ruling favorable to Microsoft. The Company can provide no assurances on whether the Microsoft case's favorable ruling will be challenged in higher courts or on the impact that the Microsoft case's decision will have on the Company's audit case. The Company is uncertain as to when the service tax audit will be completed.

The Company sells software licenses and services to its customers under proprietary software license agreements. Each license agreement contains the relevant terms of the contractual arrangement with the customer, and generally includes certain provisions for indemnifying the customer against losses, expenses and liabilities from damages that are incurred by or awarded



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against the customer in the event the Company's software or services are found to infringe upon a patent, copyright or other proprietary right of a third party. To date, the Company has not had to reimburse any of its customers for any losses related to these indemnification provisions and no material claims asserted under these indemnification provisions are outstanding as of December 31, 2014. For several reasons, including the lack of prior material indemnification claims, the Company cannot determine the maximum amount of potential future payments, if any, related to such indemnification provisions.

20. Subsequent Events

On February 3, 2015, the Company acquired the assets of Newmerical Technologies International, a leading developer of in-flight icing simulation software and associated design, testing and certification services, for a purchase price of approximately \$10.5 million in cash. The acquisition will be accounted for as a business combination.



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SIGNATURES

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

ANSYS, Inc.

Date: February 26, 2015

By: /s/ JAMES E. CASHMAN III

James E. Cashman III  
President and Chief Executive Officer

Date: February 26, 2015

By: /s/ MARIA T. SHIELDS

Maria T. Shields  
Chief Financial Officer,  
Vice President, Finance and Administration

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## POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints James E. Cashman III, his or her attorney-in-fact, with the power of substitution, for such person in any and all capacities, to sign any amendments to this Report on Form 10-K, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that said attorney-in-fact, or substitute or substitutes, may do or cause to be done by virtue hereof. Pursuant to the requirements of the Securities Exchange Act of 1934, this Annual Report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated below.

| Signature                                        | Title                                                                                                                           | Date              |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|
| /s/ JAMES E. CASHMAN III<br>James E. Cashman III | President and Chief Executive Officer<br>(Principal Executive Officer)                                                          | February 26, 2015 |
| /s/ MARIA T. SHIELDS<br>Maria T. Shields         | Chief Financial Officer, Vice President, Finance and<br>Administration; (Principal Financial Officer and<br>Accounting Officer) | February 26, 2015 |
| /s/ RONALD W. HOVSEPIAN<br>Ronald W. Hovsepian   | Interim Non-Executive Chairman of the Board of<br>Directors                                                                     | February 26, 2015 |
| /s/ DR. AJEI GOPAL<br>Dr. Ajei Gopal             | Director                                                                                                                        | February 26, 2015 |
| /s/ WILLIAM R. MCDERMOTT<br>William R. McDermott | Director                                                                                                                        | February 26, 2015 |
| /s/ BRADFORD C. MORLEY<br>Bradford C. Morley     | Director                                                                                                                        | February 26, 2015 |
| /s/ BARBARA V. SCHERER<br>Barbara V. Scherer     | Director                                                                                                                        | February 26, 2015 |
| /s/ PETER J. SMITH<br>Peter J. Smith             | Director                                                                                                                        | February 26, 2015 |
| /s/ MICHAEL C. THURK<br>Michael C. Thurk         | Director                                                                                                                        | February 26, 2015 |
| /s/ PATRICK J. ZILVITIS<br>Patrick J. Zilvitis   | Director                                                                                                                        | February 26, 2015 |

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SCHEDULE II  
 ANSYS, INC. AND SUBSIDIARIES  
 Valuation and Qualifying Accounts

| (in thousands)               | Description                     | Balance at<br>Beginning<br>of Year | Additions—<br>Charges to Costs<br>and Expenses | Deductions—<br>Returns and<br>Write-Offs | Balance at<br>End<br>of Year |
|------------------------------|---------------------------------|------------------------------------|------------------------------------------------|------------------------------------------|------------------------------|
| Year ended December 31, 2014 | Allowance for doubtful accounts | \$5,700                            | \$ 2,104                                       | \$2,304                                  | \$5,500                      |
| Year ended December 31, 2013 | Allowance for doubtful accounts | \$4,800                            | \$ 1,465                                       | \$565                                    | \$5,700                      |
| Year ended December 31, 2012 | Allowance for doubtful accounts | \$4,101                            | \$ 938                                         | \$239                                    | \$4,800                      |

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| Exhibit No. | Exhibit                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1         | Restated Certificate of Incorporation of the Company (filed as Exhibit 3.1 to the Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 1996 and incorporated herein by reference).                                                                            |
| 3.2         | Certificate of Amendment to the Company's Restated Certificate of Incorporation as filed with the Secretary of State of the State of Delaware (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed June 21, 2006, and incorporated herein by reference). |
| 3.3         | Certificate of Amendment to the Company's Restated Certificate of Incorporation as filed with the Secretary of State of the State of Delaware (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed May 17, 2011, and incorporated herein by reference).  |
| 3.4         | Certificate of Amendment to the Company's Restated Certificate of Incorporation as filed with the Secretary of State of the State of Delaware (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed May 21, 2012, and incorporated herein by reference).  |
| 3.5         | Second Amended and Restated By-laws of the Company (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed February 19, 2008 and incorporated herein by reference).                                                                                         |
| 3.6         | Amendment No. 1 to the Second Amended and Restated By-laws of the Company (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed July 23, 2008, and incorporated herein by reference).                                                                     |
| 3.7         | Amendment No. 2 to the Second Amended and Restated By-laws of the Company (filed as Exhibit 3.1 to the Company's Current Report on Form 8-K, filed December 20, 2011, and incorporated herein by reference).                                                                 |
| 10.1        | ANSYS, Inc. Second Amended and Restated Employee Stock Purchase Plan (filed as Exhibit 10.1 to the Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2007 and incorporated herein by reference).*                                                     |
| 10.2        | Employment Agreement between a subsidiary of the Company and Peter J. Smith dated as of March 28, 1994 (filed as Exhibit 10.10 to the Company's Registration Statement on Form S-1 (File No. 333-4278) and incorporated herein by reference).*                               |
| 10.3        | Lease between National Build to Suit Washington County, L.L.C. and the Company for the Southpointe property (filed as Exhibit 10.19 to the Company's Registration Statement on Form S-1 (File No. 333-4278) and incorporated herein by reference).                           |
| 10.4        | First Amended Lease Agreement between Southpointe Park Corp. and ANSYS, Inc. (filed as Exhibit 10.2 to the Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2004 and incorporated herein by reference).                                                   |
| 10.5        | The Company's Pension Plan and Trust, as amended (filed as Exhibit 10.20 to the Company's Registration Statement on Form S-1 (File No. 333-4278) and incorporated herein by reference).*                                                                                     |
| 10.6        | Form of Director Indemnification Agreement (filed as Exhibit 10.21 to the Company's Registration Statement on Form S-1 (File No. 333-4278) and incorporated herein by reference).                                                                                            |

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- 10.7 Employment Agreement between the Registrant and James E. Cashman III dated as of April 21, 2003 (filed as Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003 and incorporated herein by reference).\*
- 10.8 Description of Executive Bonus Plan, Director Stock Option Program and Officer Stock Option Program, including Forms of Option Agreements for Option Grants to Directors and Officers (filed as Exhibits 99.1 – 99.5 to the Company's Current Report on Form 8-K, filed February 8, 2005, and incorporated herein by reference).\*
- 10.9 Options Granted to Independent Directors Related to the 2005 Annual Meeting of Stockholders on May 10, 2005 (filed as disclosure in the Company's Current Report on Form 8-K, filed May 13, 2005, and incorporated herein by reference).\*
- 10.10 Indemnification Agreement, dated February 9, 2006, between ANSYS, Inc. and Sheila S. DiNardo (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed February 15, 2006, and incorporated herein by reference).
- 10.11 Amendment to Non-Affiliate Independent Director Compensation on February 9, 2006 (filed as disclosure in the Company's Current Report on Form 8-K, filed February 15, 2006, and incorporated herein by reference).\*
- 10.12 Amended and Restated ANSYS, Inc. Cash Bonus Plan, adopted on March 2, 2006 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed March 8, 2006, and incorporated herein by reference).\*

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|       |                                                                                                                                                                                                                                                                            |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.13 | Form of Deferred Stock Unit Agreement under the Third Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed July 6, 2006, and incorporated herein by reference).*                    |
| 10.14 | Deferred Stock Unit Agreement under the Third Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.4 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008 and incorporated herein by reference).*     |
| 10.15 | Amended and Restated ANSYS, Inc. Cash Bonus Plan (filed as Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008 and incorporated herein by reference).*                                                                    |
| 10.16 | First Amendment of the Employment Agreement Between the Company and James E. Cashman III as of November 6, 2008 (filed as Exhibit 10.6 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008 and incorporated herein by reference).*     |
| 10.17 | First Amendment of the Employment Agreement Between the Company and Peter J. Smith as of November 6, 2008 (filed as Exhibit 10.7 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008 and incorporated herein by reference).*           |
| 10.18 | Amendment to the Compensatory Arrangement for Peter J. Smith (filed as Item 5.02 to the Company's Current Report on Form 8-K, filed May 15, 2009, and incorporated herein by reference).*                                                                                  |
| 10.19 | ANSYS, Inc. Long-Term Incentive Plan, dated February 17, 2010 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed February 23, 2010, and incorporated herein by reference).*                                                                         |
| 10.20 | ANSYS, Inc. Executive Severance Plan, dated February 17, 2010 (filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed February 23, 2010, and incorporated herein by reference).*                                                                         |
| 10.21 | Form of Award Notice under the ANSYS, Inc. Long-Term Incentive Plan (filed as Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2010 and incorporated herein by reference).*                                                     |
| 10.22 | ANSYS, Inc. Amended and Restated Long-Term Incentive Plan, dated August 2, 2010 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed August 6, 2010, and incorporated herein by reference).*                                                          |
| 10.23 | Second Amendment of the Employment Agreement Between ANSYS, Inc. and James E. Cashman III dated March 14, 2011 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed March 18, 2011, and incorporated herein by reference).*                           |
| 10.24 | Form of Employee Incentive Stock Option Agreement under the Fourth Amended and Restated ANSYS, Inc. Stock Option and Grant Plan (filed as Exhibit 10.5 to the Company's Current Report on Form 8-K, filed March 18, 2011, and incorporated herein by reference).*          |
| 10.25 | Form of Employee Non-Qualified Stock Option Agreement under the Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q, filed May 2, 2013, and incorporated herein by reference).* |
| 10.26 |                                                                                                                                                                                                                                                                            |

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Form of Employee Director Non-Qualified Stock Option Agreement under the Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q, filed May 2, 2013, and incorporated herein by reference).\*

10.27 Form of Non-Employee Director Non-Qualified Stock Option Agreement under the Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q, filed May 2, 2013, and incorporated herein by reference).\*

10.28 Form of Non-Qualified Option Transfer Acknowledgment under the Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.4 to the Company's Quarterly Report on Form 10-Q, filed May 2, 2013, and incorporated herein by reference).\*

10.29 Form of Indemnification Agreement between ANSYS, Inc. and Non-Employee Directors (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed March 20, 2013, and incorporated herein by reference).

10.30 First Amendment to Letter Agreement between ANSYS, Inc. and Maria T. Shields, dated March 14, 2011 (filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed March 18, 2011, and incorporated herein by reference).\*

10.31 Consent of the Compensation Committee of the ANSYS, Inc. Board of Directors dated March 14, 2011 (filed as Exhibit 10.3 to the Company's Current Report on Form 8-K, filed March 18, 2011, and incorporated herein by reference).\*

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|       |                                                                                                                                                                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.32 | Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed May 17, 2011, and incorporated herein by reference).*                                                                                      |
| 10.33 | Indemnification Agreement, dated February 27, 2012, between ANSYS, Inc. and Ronald W. Hovsepian, a director of the Company (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed February 29, 2012, and incorporated herein by reference).                                |
| 10.34 | Lease by and between ANSYS, Inc. and Quattro Investment Group, L.P., dated as of September 14, 2012 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed September 18, 2012, and incorporated herein by reference).                                                      |
| 10.35 | Form of Restricted Stock Unit Agreement under the Fourth Amended and Restated ANSYS, Inc. 1996 Stock Option and Grant Plan (filed as Exhibit 10.39 to the Company's Annual Report on Form 10-K, filed February 27, 2014, and incorporated herein by reference).*                              |
| 10.36 | ANSYS, Inc. Second Amended and Restated Long-Term Incentive Plan, dated March 5, 2014 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed March 11, 2014, and incorporated herein by reference).*                                                                       |
| 10.37 | Form of Performance-Based Restricted Stock Unit (Total Shareholder Return) Award under the ANSYS, Inc. Second Amended and Restated Long-Term Incentive Plan (filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed March 11, 2014, and incorporated herein by reference).* |
| 10.38 | Form of Performance-Based Restricted Stock Unit Award under the ANSYS, Inc. Fourth Amended and Restated 1996 Stock Option and Grant Plan (filed as Exhibit 10.3 to the Company's Current Report on Form 8-K, filed March 11, 2014, and incorporated herein by reference).*                    |
| 10.39 | Resignation Agreement by and between the Company and Joseph C. Fairbanks, Jr., dated July 11, 2014 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed July 14, 2014, and incorporated herein by reference).*                                                           |
| 14.1  | Code of Business Conduct and Ethics (filed as Exhibit 14.1 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2003, filed March 12, 2004 and incorporated herein by reference).                                                                               |
| 21.1  | Subsidiaries of the Registrant; filed herewith.                                                                                                                                                                                                                                               |
| 23.1  | Consent of Deloitte & Touche LLP, independent registered public accounting firm.                                                                                                                                                                                                              |
| 24.1  | Powers of Attorney. Contained on the Signatures page of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2014 and incorporated herein by reference.                                                                                                            |
| 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.                                                                                                                                                                                           |
| 32.1  | Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.                                                                                                                                                                       |



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32.2 Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

101.INS XBRL Instance Document

101.SCH XBRL Taxonomy Extension Schema

101.CAL XBRL Taxonomy Extension Calculation Linkbase

101.DEF XBRL Taxonomy Extension Definition Linkbase

101.LAB XBRL Taxonomy Extension Label Linkbase

101.PRE XBRL Taxonomy Extension Presentation Linkbase

\* Indicates management contract or compensatory plan, contract or arrangement.

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