UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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| | | FO | RM 10-K | | | | | |
| (Mar | k One) | | | | | | | |
| × | • | RT PURSUANT TO SECTION 1 | 13 OR 15(d) OF THE S | ECURITIES EXCHANGE ACT | | | | |
| | | For the year en | ded October 31, 2014 OR | | | | | |
| | TRANSITION RE | PORT PURSUANT TO SECTION | ON 13 OR 15(d) OF TH | IE SECURITIES EXCHANGE A | СТ | | | |
| | | For the transition po Commission F | eriod from File Number 0-19807 | to | | | | |
| | | SYNO | DPSYS ° | | | | | |
| | | SYNO (Exact name of registra | PSYS, INC. nt as specified in its o | charter) | | | | |
| | | Delaware | | 56-1546236 | | | | |
| | (State or dincorporate | other jurisdiction of tion or organization) | | (I.R.S. Employer Identification No.) | ployer on No.) | | | |
| | | 700 East Middlefield Road, (Address of principal exec (650) (Registrant's telephone | utive offices, including 584-5000 | g zip code) | | | | |
| | | Securities Registered Purs | uant to Section 12(b) | of the Act: | | | | |
| | <u>Title</u> | of Each Class | Name of Each | Exchange on Which Register | <u>ed</u> | | | |
| | Common S | tock, \$0.01 par value | NASD | AQ Global Select Market | | | | |
| | ndicate by check mark i | Securities Registered Pursua f the registrant is a well-known seasone f the registrant is not required to file rep | d issuer, as defined in Rule | | _ | | | |
| Act of subject | 1934 during the preced at to such filing requiren | ling 12 months (or for such shorter perionents for the past 90 days. Yes ເ N | od that the registrant was req lo \square | Section 13 or 15(d) of the Securities Exchuired to file such reports), and (2) has be | en | | | |
| Data F | File required to be subm | | of Regulation S-T (§ 232.405 | corporate Web site, if any, every Interact of this chapter) during the preceding 12 Yes ☑ No □ | ive | | | |

Indicate by 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 registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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

| Large accelerated filer ⊠ | Accelerated filer □ | Non-accelerated filer □ | Smaller Reporting Company □ |
|---------------------------|---------------------|---|-----------------------------|
| | | (Do not check if a smaller reporting company) | |

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold as of the last business day of the registrant's most recently completed second fiscal quarter was approximately \$3.8 billion. Aggregate market value excludes an aggregate of approximately 53.9 million shares of common stock held by the registrant's executive officers and directors and by each person known by the registrant to own 5% or more of the outstanding common stock on such date. Exclusion of shares held by any of these persons should not be construed to indicate that such person possesses the power, direct or indirect, to direct or cause the direction of the management or policies of the registrant, or that such person is controlled by or under common control with the registrant.

On December 10, 2014, 153,103,327 shares of the registrant's Common Stock, \$0.01 par value, were outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement relating to the registrant's 2015 Annual Meeting of Stockholders, scheduled to be held on April 2, 2015, are incorporated by reference into Part III of this Annual Report on Form 10-K where indicated. Except as expressly incorporated by reference, the registrant's Proxy Statement shall not be deemed to be part of this report.

SYNOPSYS, INC.

ANNUAL REPORT ON FORM 10-K Year ended October 31, 2014

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Cautionary Note Regarding Forward-Looking Statements

This Annual Report on Form 10-K (this Form 10-K or Annual Report) contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the Securities Act) and Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act), which are subject to the "safe harbor" created by those sections. Any statements herein that are not statements of historical fact may be deemed to be forward-looking statements. For example, words such as "may," "will," "could," "would," "should," "anticipate," "expect," "intend," "believe," "estimate," "project" or "continue" and the negatives of such terms are intended to identify forward-looking statements. This Form 10-K includes, among others, forward-looking statements regarding our expectations about:

- our business, product and platform strategies;
- our business outlook;
- prior and future acquisitions, including the expected benefits of completed acquisitions;
- the impact of macroeconomic conditions on our business and our customers' businesses;
- demand for our products and our customers' products;
- customer license renewals;
- the completion of development of our unfinished products, or further development, integration, or broader release of our existing products;
- technological trends in integrated circuit design;
- our ability to successfully compete in the electronic design automation industry;
- the continuation of current industry trends towards vendor and customer consolidation;
- our license mix;
- litigation;
- our ability to protect our intellectual property rights;
- our cash, cash equivalents and cash generated from operations; and
- our future liquidity requirements.

These statements involve certain known and unknown risks, uncertainties and other factors that could cause our actual results, time frames or achievements to differ materially from those expressed or implied in our forward-looking statements. Accordingly, we caution readers not to place undue reliance on these statements. Such risks and uncertainties include, among others, those listed in Part I, Item 1A, *Risk Factors* of this Form 10-K. The information included herein represents our estimates and assumptions as of the date of this filing. Unless required by law, we undertake no obligation to update publicly any forward-looking statements, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future. All subsequent written or oral forward-looking statements attributable to Synopsys or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements. Readers are urged to carefully review and consider the various disclosures made in this report and in other documents we file from time to time with the Securities and Exchange Commission (SEC) that attempt to advise interested parties of the risks and factors that may affect our business.

Fiscal Year End

Our fiscal year generally ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year.

Fiscal 2014 and 2013 were 52-week years ending on November 1, 2014 and November 2, 2013, respectively. Fiscal 2012 was a 53-week year ending on November 3, 2012. The extra week in fiscal 2012 resulted in approximately \$26 million of additional revenue, related primarily to time-based licenses, and approximately \$16 million of additional expenses.

For presentation purposes, this Form 10-K refers to October 31 as the end of our fiscal year.

PART I

Item 1. Business

Introduction

Synopsys, Inc. is a global leader in providing software, intellectual property and services used to design integrated circuits and electronic systems. For more than 25 years, we have supplied the electronic design automation (EDA) software that engineers use to design and test integrated circuits (ICs), commonly called chips. We also provide intellectual property (IP) products, which are pre-designed circuits that engineers use as components of larger chip designs instead of designing those circuits themselves. We provide software and hardware used to develop the electronic systems that incorporate chips and the software that runs on them. To complement these product offerings, we provide technical services to support our solutions and help our customers develop chips and electronic systems. We are also a leading provider of software tools that developers use to improve the quality, security, and time-to-market of software code in a wide variety of industries, including electronics, financial services, energy, and industrials.

Corporate Information

We incorporated in 1986 in North Carolina and reincorporated in Delaware in 1987. Our headquarters are located at 700 East Middlefield Road, Mountain View, California 94043, and our telephone number there is (650) 584-5000. We expect that our headquarters will change to 690 East Middlefield Road, Mountain View, California 94043, in early 2015. We have approximately 98 offices worldwide.

Our annual and quarterly reports on Forms 10-K and 10-Q (including related filings in XBRL format), current reports on Form 8-K, and Proxy Statements relating to our annual meetings of stockholders, including any amendments to these reports, as well as filings made by our executive officers and directors, are available through the Investor Relations page of our Internet website (www.synopsys.com) free of charge as soon as practicable after we file them with, or furnish them to, the SEC (www.sec.gov). We use our Investor Relations page as a routine channel for distribution of important information, including news releases, analyst presentations, and financial information. The contents of our website are not part of this Form 10-K.

Background

Recent years have seen a remarkable proliferation of consumer and wireless electronic products, particularly mobile devices. The growth of the Internet and cloud computing has provided people with new ways to create, store and share information. At the same time, the increasing use of electronics in cars, buildings, and appliances and other consumer products is expanding the landscape of "smart" devices.

These developments depend, in large part, on chips. It is common for a single chip to combine many components (processor, communications, memory, custom logic, input/output) into a single System-on-Chip (SoC), resulting in highly complex chip designs. The most complex chips today contain more than a billion transistors, the basic building blocks for integrated circuits, each of which may have features that are less than 1/1,000th the diameter of a human hair. At such small dimensions, the wavelength of light itself can become an obstacle to production, becoming too big to create such dense features and requiring creative and complicated new approaches from designers. Designers have turned to new manufacturing techniques, such as double patterning lithography and FinFET transistors, which introduce their own challenges in design and production.

In addition, due to the popularity of mobile devices and other electronic products, there is increasing demand for integrated circuits and systems with greater functionality and performance, reduced size, and less power consumption. The designers of these products—our customers—are facing intense pressure to deliver innovative products at ever shorter times-to-market, as well as at lower prices. In other words, innovation in chip and system design often hinges on "better," "sooner," and "cheaper."

A similar dynamic is at work in the software industry, where the pace of innovation requires developers to deliver high quality software, which can include millions of lines of code, in increasingly shrinking release cycles. Bugs, defects, and security vulnerabilities in code can be difficult to detect and expensive to fix. But, at a time when software is prevalent in many industries and in an increasing array of smart devices, it can be crucial to do so.

Synopsys is at the heart of accelerating innovation in the electronics industry. We provide the software tools, IP, hardware and other technologies that designers use to create chips and systems. We also provide the software tools that software developers use to detect critical flaws in their code.

The task of the chip and system designer is to determine how best to locate and connect the building blocks of chips, verifying that the resulting design behaves as intended and ensuring that the design can be manufactured efficiently and cost-effectively. This task is a complicated, multi-step process that is both expensive and time-consuming. We offer a wide range of products that help designers at different steps in the overall design process, both for the design of individual integrated circuits and for the design of larger systems. Our products can increase designer productivity and efficiency by automating tasks, keeping track of large amounts of design data, adding intelligence to the design process, facilitating reuse of past designs and reducing errors. Our IP products offer proven, high-quality pre-configured circuits that are ready-to-use in a chip design, saving customers time and enabling them direct resources to features that differentiate their products. Our global service and support engineers also provide expert technical support and design assistance to our customers.

The task of the software developer is to write code that not only accomplishes the developer's goal as efficiently as possible but that also runs securely and free of errors. We offer products that can help developers write better, more secure code by analyzing their code for quality defects and security vulnerabilities, adding intelligence and automation to the software testing process, and helping to eliminate quality and security defects in a systematic manner. Our products can enable software developers to catch flaws earlier in the development cycle, when they can be less costly to fix.

Products and Services

Revenue from our products and services is reported in four groups:

- Core EDA, which includes our digital and custom IC design products, our verification products, and our field-programmable gate array (FPGA) design products;
- IP and Software Solutions, which includes our DesignWare® IP portfolio, our system-level design tools, and our Coverity® software quality and security testing solutions;
- Manufacturing Solutions; and
- Professional Services.

Core EDA Solutions

The process of designing integrated circuits contains many complex steps: architecture definition, RTL (register transfer level) design, functional/RTL verification, logic design or synthesis, gate-level verification, floorplanning, and place and route, to name just a few. Designers use our Core EDA products to automate the integrated circuit design process and to reduce errors. We offer a large number of Core EDA products intended to address the process comprehensively. Our Core EDA products generally fall into the following categories:

- Digital and Custom IC Design, which includes tools to design an integrated circuit;
- Verification, which includes technology to verify that an integrated circuit behaves as intended; and
- FPGA Design, which includes tools to design FPGAs, a complex, configurable form of integrated circuit.

Digital and Custom IC Design

Our Galaxy™ Design Platform provides our customers with a single, integrated chip design solution that includes industry-leading individual products and incorporates common libraries and consistent timing, delay calculation and constraints throughout the design process. The platform allows designers the flexibility to integrate internally developed and third-party tools. With this advanced functionality, common foundation and flexibility, our Galaxy Design Platform helps reduce design times, decrease integration costs and minimize the risks inherent in advanced, complex integrated circuit designs. Our products span digital, custom and analog/mixed-signal designs.

In fiscal 2014, we introduced our IC Compiler™ II physical design solution and expect to continue to broaden its availability in fiscal 2015. IC Compiler II is a complete place-and-route system, built on new, multi-threaded infrastructure, that offers faster runtime, uses less memory, and delivers superior chip design results in area, timing, and power, which can help designers reduce their design iterations and boost design productivity.

Our other principal design products, also available as part of the Galaxy Design Platform, are our IC Compiler physical design solution, Design Compiler® logic synthesis product, Galaxy Custom Designer® and Laker® Layout

custom design solutions, CustomSim[™] tool for analog/mixed-signal verification, PrimeTime® timing analysis products, StarRC[™] product for extraction, and IC Validator tool for physical verification.

Verification

In fiscal 2014, we introduced our Verification Continuum™ Platform to accelerate industry innovation by enabling earlier software bring-up and shorter times-to-market for advanced SoCs. Verification Continuum is built from our industry-leading and fastest verification technologies, providing virtual prototyping, static and formal verification, simulation, emulation, FPGA-based prototyping, and debug in a unified environment with verification IP and planning and coverage technology. Elements of the platform are in various stages of release, with some elements available currently and others expected to be generally available in calendar year 2015.

The individual products included in Verification Continuum span both our Core EDA and IP and Software Solutions revenue groups. The solutions reported in Core EDA revenue include the following:

- Our Verification Compiler™ solution, released in fiscal 2014, which is a complete portfolio of integrated, next-generation verification technologies that include advanced debug (our Verdi® solution), simulation (our VCS® comprehensive RTL verification technology), new static and formal verification technology, verification IP, and planning and coverage technology. In addition to their inclusion in our Verification Compiler solution, these verification technologies also continue to be sold as individual point tools.
- ZeBu® emulation systems, which use high-performance hardware to emulate SoC designs so that
 designers can accelerate verification of large complex SoCs and perform earlier verification of the
 SoC together with software.
- Our other principal individual verification solutions, including CustomSim™ FastSPICE and FineSim® SPICE/FastSPICE circuit simulation and analysis products, HSPICE® circuit simulator, and CustomExplorer™ Ultra mixed-signal regression and analysis environment.

The virtual prototyping and FPGA-based prototyping solutions that are part of our Verification Continuum platform are included in our IP and Software Solutions revenue group.

FPGA Design

FPGAs are complex chips that can be customized or programmed to perform a specific function after they are manufactured. For FPGA design, we offer Synplify® Pro and Premier implementation and Identify® debug software tools.

IP and Software Solutions

IP Products

As more functionality converges into a single device or even a single chip, and chip designs grow more complex, the number of third-party IP blocks incorporated into designs is rapidly increasing. Synopsys is a leading provider of high-quality, silicon-proven IP solutions for SoCs. Our broad DesignWare® IP portfolio includes:

- high-quality solutions for widely used interfaces such as USB, PCI Express, DDR, Ethernet, SATA,
 MIPI, and HDMI;
- analog IP for analog-to-digital data conversion and audio;
- SoC infrastructure IP including minPower datapath components, ARM® AMBA® interconnect fabric and peripherals, and verification IP;
- logic libraries and embedded memories, including SRAMs and non-volatile memory;
- configurable processor cores and application-specific instruction-set processors (ASIPs) for embedded and deeply embedded designs; and
- IP subsystems for audio and sensor functionality that combine IP blocks and software into an integrated, pre-verified solution.

Our IP Accelerated initiative augments our established, broad portfolio of silicon-proven DesignWare IP with DesignWare IP Prototyping Kits, DesignWare IP Virtual Development Kits, and customized IP subsystems to accelerate prototyping, software development, and integration of IP into SoCs.

System-Level Solutions

Optimizing the system-level design earlier in the development cycle, including both hardware and software components, is increasingly important for customers to meet their performance, time-to-market, and development cost goals. Synopsys has the industry's broadest portfolio of tools, models and services for the system-level design of SoCs.

Our Platform Architect™ software enables early and rapid exploration of SoC architectural trade-offs. To speed the creation, implementation and verification of differentiated IP blocks, we offer SPW™ and System Studio™ tools for algorithm design, Processor Designer™ software for custom processor design, and Synphony Model™ and C Compilers for high-level synthesis.

Escalating software content and complexity in today's electronic devices are driving the adoption of new tools and methods to accelerate software development and ease hardware-software integration and system validation. Our system-level portfolio includes prototyping technologies that can improve the productivity of both hardware and software development teams. These prototyping technologies are also an important component of our Verification Continuum Platform. Our Virtualizer™ tool and broad portfolio of transaction-level models enable the creation of virtual prototypes, fully functional software models of complete systems that enable engineers to start software development up to twelve months earlier than traditional methods. Our HAPS® FPGA-based prototyping systems integrate high performance hardware and software tools with real-world interfaces to enable faster hardware-software integration and full system validation. Our hybrid prototyping solution combines both approaches to prototyping, integrating Virtualizer virtual prototyping with HAPS FPGA-based prototyping.

Synopsys also provides a series of tools used in the design of optical systems and photonic devices. Our CODE V® solution enables engineers to model, analyze and optimize designs for optical imaging and communication systems. Our LightTools® design and analysis software allows designers to simulate and improve the performance of a broad range of illumination systems, from vehicle lighting to projector systems.

Software Solutions

In the second quarter of fiscal 2014, we acquired Coverity, Inc. (Coverity), a leading provider of software quality, testing, and security tools. Coverity products help software developers reduce the risk of errors and security defects in their code before it is released. Our Coverity Code Advisor solution includes the Quality Advisor™ and Security Advisor™ tools, which analyze software code to find crash-causing bugs, incorrect program behavior, memory leaks and other flaws that degrade performance, security vulnerabilities, violations of security best practices, and other critical code issues, many of which may be difficult to detect by other means. Our Coverity Test Advisor™ solutions allow developers to focus their test development on the most critical code and to prioritize their test execution for the tests that are the most relevant for a particular set of code additions or changes. Our Coverity Connect™ platform assists software development teams in tracking and managing their code issues.

Manufacturing Solutions

Our Manufacturing Solutions products and technologies enable semiconductor manufacturers to more quickly develop new fabrication processes that produce production-level yields. These products are used in the early research and development phase and the production phase. In the production phase, manufacturers use these products to convert IC design layouts into the masks used to manufacture the devices.

Our Manufacturing Solutions include Sentaurus™ Technology-CAD (TCAD) device and process simulation products, Proteus optical proximity correction (OPC) and lithography rule check (LRC) products, CATS® mask data preparation product, and Yield Explorer® and Odyssey/Yield Manager Yield Management solutions.

Professional Services and Training

Synopsys provides consulting and design services that address all phases of the SoC development process. These services assist our customers with new tool and methodology adoption, chip architecture and specification development, functional and low-power design and verification, and physical implementation and signoff. We also provide a broad range of expert training and workshops on our latest tools and methodologies.

Customer Service and Technical Support

A high level of customer service and support is critical to the adoption and successful use of our products. We provide technical support for our products through both field-based and corporate-based application engineering teams. Customers who purchase Technology Subscription Licenses (TSLs) receive software maintenance services bundled with their license fee. Customers who purchase term licenses and perpetual licenses may purchase these services separately. See *Product Sales and Licensing Agreements* below.

Software maintenance services include minor product enhancements, bug fixes and access to our technical support center for primary support. Software maintenance also includes access to the SolvNet® portal, our webbased support solution that gives customers access to Synopsys' complete design knowledge database. Updated daily, the SolvNet portal includes documentation, design tips and answers to user questions. Customers can also engage, for additional charges, our worldwide network of applications consultants for additional support needs.

In addition, Synopsys also offers training workshops designed to increase customer design proficiency and productivity with our products. Workshops cover our products and methodologies used in our design and verification flows, as well as specialized modules addressing system design, logic design, physical design, simulation and test. We offer regularly scheduled public and private courses in a variety of locations worldwide, as well as Virtual Classroom on-demand and live online training.

Product Warranties

We generally warrant our products to be free from defects in media and to substantially conform to material specifications for a period of 90 days for our software products and for up to 6 months for our HAPS FPGA-based prototyping systems. In many cases, we also provide our customers with limited indemnification with respect to claims that their use of our software products infringes on United States patents, copyrights, trademarks or trade secrets. We have not experienced material warranty or indemnity claims to date.

Support for Industry Standards

We actively create and support standards that help our customers increase productivity, facilitate efficient design flows, improve interoperability of tools from different vendors, and ensure connectivity, functionality and interoperability of IP building blocks. Standards in the electronic design industry can be established by formal accredited organizations, industry consortia, company licensing made available to all, de facto usage, or through open source licensing.

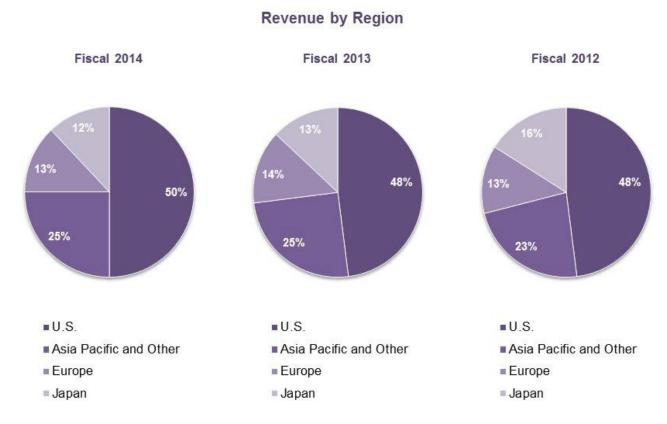
Synopsys' products support more than 35 standards, including the most commonly used hardware description languages: SystemVerilog, Verilog, VHDL, and SystemC. Our products utilize numerous industry standard data formats, application programming interfaces, and databases for the exchange of design data among our tools, other EDA vendors' products, and applications that customers develop internally. We also comply with a wide range of industry standards within our IP product family to ensure usability and interconnectivity.

Sales, Distribution and Backlog

Our EDA and IP customers are primarily semiconductor and electronics systems companies. The customers for our Coverity software solutions products include many of these companies as well as companies in a wider array of industries, including financial services, energy, and industrials. We market our products and services principally through direct sales in the United States and principal foreign markets. We typically distribute our software products and documentation to customers electronically, but provide physical media (e.g., DVD-ROMs) when requested by the customer.

We maintain sales/support centers throughout the United States. Outside the United States, we maintain sales, support or service offices in Canada, multiple countries in Europe, Israel, Japan, China, Korea, Taiwan and other countries in Asia. Our foreign headquarters for financial and tax purposes are located in Dublin, Ireland. Our offices are further described under Part I, Item 2, *Properties*.

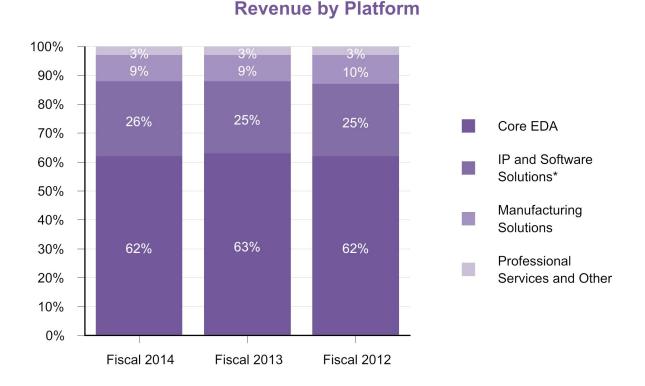
In fiscal 2014, 2013 and 2012, an aggregate of 50%, 52% and 52%, respectively, of Synopsys' total revenue was derived from sales outside of the United States. Geographic revenue, which is based on customer server site location, is shown below as a percentage of total revenue for the last three fiscal years:



Additional information relating to domestic and foreign operations, including revenue and long-lived assets by geographic area, is contained in Note 13 of *Notes to Consolidated Financial Statements* in Part II, Item 8, *Financial Statements and Supplementary Data*. Risks related to our foreign operations are described in Part I, Item 1A, *Risk Factors*.

Our backlog was approximately \$3.5 billion on October 31, 2014, representing a 13% increase from backlog of \$3.1 billion on October 31, 2013, which resulted primarily from the renewal in fiscal 2014 of large multi-year contracts, business growth, and to a lesser extent, acquisitions. Backlog represents committed orders that are expected to be recognized as revenue over the following three years. We currently expect that \$1.7 billion of our backlog will be recognized after fiscal 2015. Backlog may not be a reliable predictor of our future sales as business conditions may change and technologies may evolve, and customers may seek to renegotiate their arrangements or may default on their payment obligations. For this and other reasons, we may not be able to recognize expected revenue from backlog when anticipated.

Revenue attributable to each of our four platforms established for management reporting purposes is shown below as a percentage of total revenue for the last three fiscal years:



*Our IP and Software Solutions platform was referred to as IP and System-Level Solutions in fiscal 2013 and 2012.

Revenue derived from Intel Corporation and its subsidiaries in the aggregate accounted for 10.5%, 11.3% and 10.5% of our total revenue in fiscal 2014, 2013 and 2012, respectively.

Research and Development

Our future performance depends in large part on our ability to further enhance and extend our design and verification platforms and to expand our manufacturing, IP, system-level and software solutions product offerings. Research and development of existing and new products is primarily conducted within each product group. We also use targeted acquisitions to augment our own research and development efforts.

Our research and development expenses were \$718.8 million, \$669.2 million and \$581.6 million in fiscal 2014, 2013 and 2012, respectively. Our capitalized software development costs were approximately \$3.6 million, \$3.6 million and \$3.3 million in fiscal 2014, 2013 and 2012, respectively.

Competition

The EDA industry is highly competitive. We compete against other EDA vendors and against our customers' own design tools and internal design capabilities. In general, we compete principally on technology leadership, product quality and features (including ease-of-use), license terms, price and payment terms, post-contract customer support, and interoperability with our own and other vendors' products. No one factor drives an EDA customer's buying decision, and we compete on all fronts to capture a higher portion of our customers' budgets.

Our competitors include EDA vendors that offer varying ranges of products and services, such as Cadence Design Systems, Inc. and Mentor Graphics Corporation. We also compete with other EDA vendors, including frequent new entrants to the marketplace, that offer products focused on one or more discrete phases of the IC design process, as well as with customers' internally developed design tools and capabilities. In the IP area, we compete generally on product quality and features, ease of integration with customer designs, compatibility with design tools, license terms, price and payment terms, and customer support. In the software solutions area, we compete with numerous tool providers, some of which focus on specific aspects of software security or quality

analysis, as well as frequent new entrants, which include start-up companies as well as more established software companies.

Product Sales and Licensing Agreements

We typically license our software to customers under non-exclusive license agreements that transfer title to the media only and restrict use of our software to specified purposes within specified geographical areas. The majority of our licenses are network licenses that allow a number of individual users to access the software on a defined network, including, in some cases, regional or global networks. License fees depend on the type of license, product mix and number of copies of each product licensed.

In many cases, we provide our customers the right to "re-mix" a portion of the software they initially licensed for other specified Synopsys products. For example, a customer may use our front-end design products for a portion of the license term and then exchange such products for back-end place and route software for the remainder of the term in order to complete the customer's IC design. This practice helps assure the customer's access to the complete design flow needed to design its product. The ability to offer this right to customers often gives us an advantage over competitors who offer a narrower range of products because customers can obtain more of their design flow from a single vendor. At the same time, because in such cases the customer need not obtain a new license and pay an additional license fee for the use of the additional products, the use of these arrangements could result in reduced revenue compared to licensing the individual products separately without remix rights.

We currently offer our software products under various license types: renewable TSLs, term licenses and perpetual licenses. For a full discussion of these licenses, see Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Estimates and Results of Operations—Revenue Background.

We typically license our DesignWare Core intellectual property products under nonexclusive license agreements that provide usage rights for specific applications. Fees under these licenses are typically charged on a per design basis plus, in some cases, royalties.

Finally, our Global Technical Services team typically provides design consulting services to our customers under consulting agreements with statements of work specific to each project.

Proprietary Rights

Synopsys primarily relies upon a combination of copyright, patent, trademark and trade secret laws and license and nondisclosure agreements to establish and protect its proprietary rights. We have a diversified portfolio of more than 2,100 United States and foreign patents issued, and we will continue to pursue additional patents in the future. Our issued patents have expiration dates through 2033. Our patents primarily relate to our products and the technology used in connection with our products. Our source code is protected both as a trade secret and as an unpublished copyrighted work. However, third parties may develop similar technology independently. In addition, effective copyright and trade secret protection may be unavailable or limited in some foreign countries. We are not significantly dependent upon any single patent, copyright, trademark or license with respect to our proprietary rights.

In many cases, under our customer agreements and other license agreements, we offer to indemnify our customers if the licensed products infringe on a third party's intellectual property rights. As a result, we may from time to time need to defend claims that our customers' use of our products infringes on these third-party rights.

Employees

As of October 31, 2014, Synopsys had 9,436 employees, of which 3,706 were based in the United States.

Executive Officers of the Registrant

The executive officers of Synopsys and their ages as of December 12, 2014 were as follows:

| Name | Age | Position |
|---------------------|-----|--|
| Aart J. de Geus | 60 | Co-Chief Executive Officer and Chairman of the Board of Directors |
| Chi-Foon Chan | 65 | Co-Chief Executive Officer and President |
| Brian M. Beattie | 61 | Executive Vice President, Business Operations and Chief Administrative Officer |
| Trac Pham | 45 | Chief Financial Officer |
| Joseph W. Logan | 55 | Executive Vice President, Worldwide Sales and Corporate Marketing |
| John F. Runkel, Jr. | 59 | General Counsel and Corporate Secretary |

Aart J. de Geus co-founded Synopsys and has served as Chairman of our Board of Directors since February 1998 and Chief Executive Officer since January 1994. He has served as Co-Chief Executive Officer with Dr. Chi-Foon Chan since May 2012. Since the inception of Synopsys in December 1986, Dr. de Geus has held a variety of positions, including President, Senior Vice President of Engineering and Senior Vice President of Marketing. He has served as a member of Synopsys' Board of Directors since 1986, and served as Chairman of our Board from 1986 to 1992 and again from 1998 until present. Dr. de Geus has also served on the board of directors of Applied Materials, Inc. since July 2007. Dr. de Geus holds an M.S.E.E. from the Swiss Federal Institute of Technology in Lausanne, Switzerland and a Ph.D. in Electrical Engineering from Southern Methodist University.

Chi-Foon Chan has served as our Co-Chief Executive Officer since May 2012 and as our President and a member of our Board of Directors since February 1998. Prior to his appointment as our Co-Chief Executive Officer in May 2012, he had served as our Chief Operating Officer since April 1997. Dr. Chan joined Synopsys in May 1990 and has held various senior management positions, including Executive Vice President, Office of the President from September 1996 to February 1998 and Senior Vice President, Design Tools Group from February 1994 to April 1997. Dr. Chan has also held senior management and engineering positions at NEC Electronics and Intel Corporation. Dr. Chan holds a B.S. in Electrical Engineering from Rutgers University, and an M.S. and a Ph.D. in Computer Engineering from Case Western Reserve University.

Brian M. Beattie is our Executive Vice President, Business Operations and Chief Administrative Officer. Prior to his promotion to that role in December 2014, Mr. Beattie served as our Chief Financial Officer since January 2006. From October 1999 to January 2006, he was Executive Vice President of Finance and Administration and Chief Financial Officer of SupportSoft, Inc. From May 1998 to May 1999, he served as Vice President of Finance, Mergers and Acquisitions of Nortel Networks Corporation. From July 1996 to April 1998, Mr. Beattie served as Group Vice President of Meridian Solutions of Nortel Networks Corporation. From February 1993 to June 1996, Mr. Beattie served as Vice President of Finance, Enterprise Networks, for Nortel Networks Corporation. Mr. Beattie served on the board of directors of Unwired Planet, Inc. from December 2010 until November 2012. Mr. Beattie holds a Bachelor of Commerce and an M.B.A. from Concordia University in Montreal.

Trac Pham was appointed our Chief Financial Officer in December 2014. Mr. Pham joined Synopsys in November 2006 as Vice President, Financial Planning and Strategy. He became our Vice President, Corporate Finance, in August 2012, assuming additional responsibility for our tax and treasury functions. Mr. Pham holds a Bachelor of Arts in Economics from the University of California, Berkeley and an MPIA (Master of Pacific International Affairs) from the University of California, San Diego.

Joseph W. Logan serves as our Executive Vice President of Worldwide Sales and Corporate Marketing. He became Senior Vice President of Worldwide Sales in September 2006, assumed responsibility for our Corporate Marketing organization in August 2013, and became Executive Vice President in December 2013. Previously, Mr. Logan was head of sales for Synopsys' North America East region from September 2001 to September 2006. Prior to Synopsys, Mr. Logan was head of North American Sales and Support at Avant! Corporation. Mr. Logan holds a B.S.E.E. from the University of Massachusetts, Amherst.

John F. Runkel, Jr. has served as our General Counsel and Corporate Secretary since May 2014. From October 2008 to March 2013, he served as Executive Vice President, General Counsel, and Corporate Secretary of Affymetrix, Inc. He served as Senior Vice President, General Counsel and Corporate Secretary of Intuitive Surgical, Inc. from 2006 to 2007. Mr. Runkel served in several roles at VISX, Inc. from 2001 to 2005, most recently as Senior Vice President of Business Development and General Counsel. Mr. Runkel was also a partner at the law firm of

Sheppard, Mullin, Richter & Hampton LLP for eleven years. He holds a Bachelor of Arts and a Juris Doctorate from the University of California, Los Angeles.

There are no family relationships among any Synopsys executive officers or directors.

Item 1A. Risk Factors

A description of the risk factors associated with our business is set forth below. Investors should carefully consider these risks and uncertainties before investing in our common stock.

The continued uncertainty in the global economy, and its potential impact on the semiconductor and electronics industries in particular, may negatively affect our business, operating results and financial condition.

While the global economy has shown improvement, there are still uncertainties surrounding the strength of the recovery in many regions. Weakness in the global economy has adversely affected consumer confidence and the growth of the semiconductor industry in recent years, causing semiconductor companies to behave cautiously and focus on their costs, including their research and development budgets, which capture spending on electronic design automation (EDA) products and services. Further uncertainty caused by a global recession could lead some of our customers to postpone their decision-making, decrease their spending and/or delay their payments to us. Continuing caution by semiconductor companies could, among other things, limit our ability to maintain or increase our sales or recognize revenue from committed contracts and in turn could adversely affect our business, operating results and financial condition.

We cannot predict when widespread global economic confidence will be restored. Events such as the timing and execution of the tapering of asset purchases by the U.S. Federal Reserve may continue to drive stock market and interest rate volatility, consumer confidence and product demand. In addition, should further economic instability affect the banking and financial services industry and result in credit downgrades of the banks we rely on for foreign currency forward contracts, credit and banking transactions, and deposit services, or cause them to default on their obligations, it could adversely affect our financial results and our business. Accordingly, our future business and financial results are subject to uncertainty, and our stock price is at risk of volatile change. If economic conditions deteriorate in the future, or, in particular, if the semiconductor industry does not grow, our future revenues and financial results could be adversely affected. Conversely, in the event of future improvements in economic conditions for our customers, the positive impact on our revenues and financial results may be deferred due to our business model.

The growth of our business depends on the semiconductor and electronics industries.

The growth of the EDA industry as a whole, and our business in particular, is dependent on the semiconductor and electronics industries. A substantial portion of our business and revenue depends upon the commencement of new design projects by semiconductor manufacturers and their customers. The increasing complexity of designs of systems-on-chips and integrated circuits, and customers' concerns about managing costs, have previously led and in the future could lead to a decrease in design starts and design activity in general, with some customers focusing more on one discrete phase of the design process or opting for less advanced, but less risky, manufacturing processes that may not require the most advanced EDA products. Demand for our products and services could decrease and our financial condition and results of operations could be adversely affected if growth in the semiconductor and electronics industries slows or stalls. Additionally, as the EDA industry matures, consolidation may result in stronger competition from companies better able to compete as sole source vendors. This increased competition may cause our revenue growth rate to decline and exert downward pressure on our operating margins, which may have an adverse effect on our business and financial condition.

Furthermore, the semiconductor and electronics industries have become increasingly complex ecosystems. Many of our customers outsource the manufacture of their semiconductor designs to foundries. Our customers also frequently incorporate third-party intellectual property (IP), whether provided by us or other vendors, into their designs to improve the efficiency of their design process. We work closely with major foundries to ensure that our EDA, IP, and manufacturing solutions are compatible with their manufacturing processes. Similarly, we work closely with other major providers of semiconductor IP, particularly microprocessor IP, to optimize our EDA tools for use with their IP designs and to assure that their IP and our own IP products, which may each provide for the design of separate components on the same chip, work effectively together. If we fail to optimize our EDA and IP solutions for

use with major foundries' manufacturing processes or major IP providers' products, or if our access to such foundry processes or third-party IP products is hampered, then our solutions may become less desirable to our customers, resulting in an adverse effect on our business and financial condition.

We may not be able to realize the potential financial or strategic benefits of the acquisitions we complete, or find suitable target businesses and technology to acquire, which could hurt our ability to grow our business, develop new products or sell our products.

Acquisitions are an important part of our growth strategy. We have completed a significant number of acquisitions in recent years. We expect to make additional acquisitions in the future, but we may not find suitable acquisition targets or we may not be able to consummate desired acquisitions due to unfavorable credit markets, commercially unacceptable terms, or other risks, which could harm our operating results. Acquisitions are difficult, time-consuming, and pose a number of risks, including:

- Potential negative impact on our earnings per share;
- Failure of acquired products to achieve projected sales;
- Problems in integrating the acquired products with our products;
- Difficulties entering into new markets in which we are not experienced or where competitors may have stronger positions;
- Potential downward pressure on operating margins due to lower operating margins of acquired businesses, increased headcount costs and other expenses associated with adding and supporting new products;
- Difficulties in retaining and integrating key employees;
- Substantial reductions of our cash resources and/or the incurrence of debt:
- Failure to realize expected synergies or cost savings;
- Difficulties in integrating or expanding sales, marketing and distribution functions and administrative systems, including information technology and human resources systems;
- Dilution of our current stockholders through the issuance of common stock as part of the merger consideration:
- Assumption of unknown liabilities, including tax and litigation, and the related expenses and diversion of resources;
- Disruption of ongoing business operations, including diversion of management's attention and uncertainty for employees and customers, particularly during the post-acquisition integration process;
- Potential negative impact on our relationships with customers, distributors and business partners;
- Exposure to new operational risks, regulations, and business customs to the extent acquired businesses are located in regions where we are not currently conducting business;
- The need to implement controls, processes and policies appropriate for a public company at acquired companies that may have lacked such controls, processes and policies;
- Negative impact on our earnings resulting from the application of Accounting Standards Codification (ASC) 805. Business Combinations: and
- Requirements imposed by government regulators in connection with their review of an acquisition, including required divestitures or restrictions on the conduct of our business or the acquired business.

If we do not manage these risks, the acquisitions that we complete may have an adverse effect on our business and financial condition.

For example, we recently completed our acquisition of Coverity, Inc. (Coverity), a leading provider of software quality, testing, and security tools. This is a new, though adjacent, technology space for us. Coverity's customer base is more diverse and includes industries with which we do not have experience. We may need to develop new sales and marketing strategies and meet new customer service requirements. At the same time, Coverity competes with different competitors from those for our existing products, and these competitors may have more financial resources, industry experience or established customer relationships than we do. To successfully develop our Coverity offerings, we will need to skillfully balance our investment in the software quality, testing and security tools space with investment in our existing products, as well as attract and retain employees with expertise in these new fields. If we fail to do so, we may not realize the expected benefits of the Coverity acquisition, and it may have a negative effect on our earnings and financial condition.

Consolidation among our customers, as well as within the industries in which we operate, may negatively impact our operating results.

A number of business combinations, including mergers, asset acquisitions and strategic partnerships, among our customers and in the semiconductor and electronics industries have occurred recently, and more could occur in the future. Consolidation among our customers could lead to fewer customers or the loss of customers, increased customer bargaining power, or reduced customer spending on software and services. The loss of customers or reduced customer spending could adversely affect our business and financial condition. In addition, we and our competitors from time to time acquire businesses and technologies to complement and expand our respective product offerings. If any of our competitors consolidate or acquire businesses and technologies which we do not offer, they may be able to offer a larger technology portfolio, a larger support and service capability, or lower prices, which could negatively impact our business and operating results.

Changes in accounting principles or standards, or in the way they are applied, could result in unfavorable accounting charges or effects and unexpected financial reporting fluctuations, and could adversely affect our reported operating results.

We prepare our consolidated financial statements in conformity with U.S. generally accepted accounting principles (U.S. GAAP). These principles are subject to interpretation by the Securities and Exchange Commission (SEC) and various bodies formed to interpret and create appropriate accounting principles and guidance. A change in existing principles, standards or guidance can have a significant effect on our reported results, may retroactively affect previously reported results, could cause unexpected financial reporting fluctuations, and may require us to make costly changes to our operational processes.

For example, the Financial Accounting Standards Board (FASB) is currently working together with the International Accounting Standards Board (IASB) to converge certain accounting principles and facilitate more comparable financial reporting between companies that are required to follow U.S. GAAP and those that are required to follow International Financial Reporting Standards (IFRS). In connection with this initiative, the FASB issued a new accounting standard for revenue recognition in May 2014 – Accounting Standards Update (ASU) 2014-09, "Revenue from Contracts with Customers (Topic 606)" – that supersedes nearly all existing U.S. GAAP revenue recognition guidance. Although we are currently in the process of evaluating the impact of ASU 2014-09 on our consolidated financial statements, it could change the way we account for certain of our sales transactions. Adoption of the standard could have a significant impact on our financial statements and may retroactively affect the accounting treatment of transactions completed before adoption.

Further efforts by the FASB and IASB to converge U.S. GAAP and IFRS accounting principles may have a material impact on the way we report financial results in areas including, but not limited to, lease accounting and financial statement presentation. In addition, the SEC may make a determination in the future regarding the incorporation of IFRS into the financial reporting system for U.S. companies. Changes in accounting principles from U.S. GAAP to IFRS, or to converged accounting principles, may have a material impact on our financial statements and may retroactively affect the accounting treatment of previously reported transactions.

Our operating results may fluctuate in the future, which may adversely affect our stock price.

Our operating results are subject to quarterly and annual fluctuations, which may adversely affect our stock price. Our historical results should not be viewed as indicative of our future performance due to these periodic fluctuations.

Many factors may cause our revenue or earnings to fluctuate, including:

- Changes in demand for our products due to fluctuations in demand for our customers' products and due to constraints in our customers' budgets for research and development and EDA products and services;
- Product competition in the EDA industry, which can change rapidly due to industry or customer consolidation and technological innovation;
- Our ability to innovate and introduce new products and services or effectively integrate products and technologies that we acquire;
- Failures or delays in completing sales due to our lengthy sales cycle, which often includes a substantial customer evaluation and approval process because of the complexity of our products and services;
- Our ability to implement effective cost control measures;

- Our dependence on a relatively small number of large customers, and on such customers continuing to renew licenses and purchase additional products from us, for a large portion of our revenue;
- Expenses related to our acquisition and integration of businesses and technology;
- Changes to our effective tax rate;
- Delays, increased costs or quality issues resulting from our reliance on third parties to manufacture our hardware products; and
- General economic and political conditions that affect the semiconductor and electronics industries.

The timing of revenue recognition may also cause our revenue and earnings to fluctuate, due to factors that include:

- Cancellations or changes in levels of license orders or the mix between upfront license revenue and timebased license revenue;
- Delay of one or more orders for a particular period, particularly orders generating upfront license revenue;
- Delay in the completion of professional services projects that require significant modification or customization and are accounted for using the percentage of completion method;
- Delay in the completion and delivery of IP products in development that customers have paid for early access to;
- Customer contract amendments or renewals that provide discounts or defer revenue to later periods;
- The levels of our hardware revenues, which are recognized upfront and are primarily dependent upon our ability to provide the latest technology and meet customer requirements, and which may also impact our levels of excess and obsolete inventory expenses; and
- Changes in or challenges to our revenue recognition model.

These factors, or any other factors or risks discussed herein, could negatively impact our revenue or earnings and cause our stock price to decline. Additionally, our results may fail to meet or exceed the expectations of securities analysts and investors, or such analysts may change their recommendation regarding our stock, which could cause our stock price to decline.

We operate in highly competitive industries, and if we do not continue to meet our customers' demand for innovative technology at lower costs, our business and financial condition will be harmed.

We compete against EDA vendors that offer a variety of products and services, such as Cadence Design Systems, Inc. and Mentor Graphics Corporation. We also compete with other EDA vendors, including frequent new entrants to the marketplace, that offer products focused on one or more discrete phases of the integrated circuit (IC) design process, as well as vendors of IP products and system-level solutions. Moreover, our customers internally develop design tools and capabilities that compete with our products.

The industries in which we operate are highly competitive and the demand for our products and services is dynamic and depends on a number of factors, including demand for our customers' products, design starts and our customers' budgetary constraints. Technology in these industries evolves rapidly and is characterized by frequent product introductions and improvements and changes in industry standards and customer requirements. Semiconductor device functionality requirements continually increase while feature widths decrease, substantially increasing the complexity, cost and risk of chip design and manufacturing. At the same time, our customers and potential customers continue to demand an overall lower total cost of design, which can lead to the consolidation of their purchases with one vendor. In order to succeed in this environment, we must successfully meet our customers' technology requirements and increase the value of our products, while also striving to reduce their overall costs and our own operating costs.

We compete principally on the basis of technology, product quality and features (including ease-of-use), license or usage terms, post-contract customer support, interoperability among products, and price and payment terms. Specifically, we believe the following competitive factors affect our success:

- Our ability to anticipate and lead critical development cycles and technological shifts, innovate rapidly and efficiently, improve our existing products, and successfully develop or acquire new products;
- Our ability to offer products that provide both a high level of integration into a comprehensive platform and a high level of individual product performance;

- Our ability to enhance the value of our offerings through more favorable terms such as expanded license
 usage, future purchase rights, price discounts and other unique rights, such as multiple tool copies, postcontract customer support, "re-mix" rights that allow customers to exchange the software they initially
 licensed for other Synopsys products, and the ability to purchase pools of technology; and
- Our ability to compete on the basis of payment terms.

If we fail to successfully manage these competitive factors, fail to successfully balance the conflicting demands for innovative technology and lower overall costs, or fail to address new competitive forces, our business and financial condition will be adversely affected.

If we fail to protect our proprietary technology, our business will be harmed.

Our success depends in part upon protecting our proprietary technology. Our efforts to protect our technology may be costly and unsuccessful. We rely on agreements with customers, employees and others and on intellectual property laws worldwide to protect our proprietary technology. These agreements may be breached, and we may not have adequate remedies for any breach. Additionally, despite our measures to prevent piracy, other parties may attempt to illegally copy or use our products, which could result in lost revenue. Some foreign countries do not currently provide effective legal protection for intellectual property and our ability to prevent the unauthorized use of our products in those countries is therefore limited. Our trade secrets may also be stolen, otherwise become known, or be independently developed by competitors.

We may need to commence litigation or other legal proceedings in order to:

- Assert claims of infringement of our intellectual property;
- Defend our products from piracy;
- Protect our trade secrets or know-how; or
- Determine the enforceability, scope and validity of the propriety rights of others.

If we do not obtain or maintain appropriate patent, copyright or trade secret protection, for any reason, or cannot fully defend our intellectual property rights in some jurisdictions, our business and operating results would be harmed. In addition, intellectual property litigation is lengthy, expensive and uncertain and legal fees related to such litigation will increase our operating expenses and may reduce our net income.

Our operating results could be adversely affected by an increase in our effective tax rate as a result of tax law changes, changes in our geographical earnings mix, an unfavorable government review of our tax returns, or by material differences between our forecasted and actual annual effective tax rates.

Our operations are subject to income and transaction taxes in the United States and in multiple foreign jurisdictions, with a significant amount of our foreign earnings generated by our subsidiaries organized in Ireland and Hungary. Because we have a wide range of statutory tax rates in the multiple jurisdictions in which we operate, any changes in our geographical earnings mix, including those resulting from our intercompany transfer pricing, could materially impact our effective tax rate. Furthermore, a change in the tax law of the jurisdictions where we do business, including an increase in tax rates or an adverse change in the treatment of an item of income or expense, could result in a material increase in our tax expense. In addition, U.S. income taxes and foreign withholding taxes have not been provided for on undistributed earnings for certain of our non-U.S. subsidiaries to the extent such earnings are considered to be indefinitely reinvested in the operations of those subsidiaries.

Further changes in the tax laws of foreign jurisdictions could arise as a result of the base erosion and profit shifting (BEPS) project being undertaken by the Organisation for Economic Co-operation and Development (OECD). The OECD, which represents a coalition of member countries, is contemplating changes to numerous long-standing tax principles. These contemplated changes, if finalized and adopted by countries, could increase tax uncertainty and may adversely affect our provision for income taxes. In the U.S., a number of proposals for broad reform of the corporate tax system are under evaluation by various legislative and administrative bodies, but it is not possible to accurately determine the overall impact of such proposals on our effective tax rate at this time.

Our tax filings are subject to review or audit by the Internal Revenue Service and state, local and foreign taxing authorities. We exercise significant judgment in determining our worldwide provision for income taxes and, in the ordinary course of our business, there may be transactions and calculations where the ultimate tax determination is uncertain. We are also liable for potential tax liabilities of businesses we acquire. Although we believe our tax estimates are reasonable, the final determination in an audit may be materially different than the treatment reflected in our historical income tax provisions and accruals. An assessment of additional taxes because

of an audit could adversely affect our income tax provision and net income in the periods for which that determination is made.

Forecasting our annual effective tax rate is highly complex, as it depends on forward-looking financial projections of our annual income and geographical mix of earnings, our interpretations of the tax laws of numerous jurisdictions, and the possible outcomes of tax audits, among other estimates and assumptions. Some items cannot be forecasted or may be treated as discrete to the future periods when they occur. If our estimates and assumptions prove incorrect, then there may be a material difference between our forecasted and actual effective tax rates, which could have a material impact on our results of operations. In addition, we maintain significant deferred tax assets related to federal research credits and certain state tax credits. Our ability to use these credits is dependent upon having sufficient future taxable income in the relevant jurisdiction. Changes in our forecasts of future income could result in an adjustment to the deferred tax asset and a related charge to earnings that could materially affect our financial results.

We may have to invest more resources in research and development than anticipated, which could increase our operating expenses and negatively affect our operating results.

We devote substantial resources to research and development. New competitors, technological advances in the semiconductor industry or by competitors, our acquisitions, our entry into new markets, or other competitive factors may require us to invest significantly greater resources than we anticipate. If we are required to invest significantly greater resources than anticipated without a corresponding increase in revenue, our operating results could decline. Additionally, our periodic research and development expenses may be independent of our level of revenue, which could negatively impact our financial results. Finally, there can be no guarantee that our research and development investments will result in products that create significant, or even any, revenue.

The global nature of our operations exposes us to increased risks and compliance obligations that may adversely affect our business.

We derive more than half of our revenue from sales outside the United States, and we expect our orders and revenue to continue to depend on sales to customers outside the U.S. In addition, we have expanded our non-U.S. operations significantly in the past several years. This strategy requires us to recruit and retain qualified technical and managerial employees, manage multiple remote locations performing complex software development projects and ensure intellectual property protection outside of the U.S. Our international operations and sales subject us to a number of increased risks, including:

- Ineffective legal protection of intellectual property rights;
- International economic and political conditions, such as political tensions between countries in which we do business;
- Difficulties in adapting to cultural differences in the conduct of business, which may include business
 practices that we are prohibited from engaging in by the Foreign Corrupt Practices Act or other anticorruption laws;
- Financial risks such as longer payment cycles and difficulty in collecting accounts receivable;
- Inadequate local infrastructure that could result in business disruptions;
- Government trade restrictions, including tariffs, export licenses, or other trade barriers;
- Additional taxes and penalties; and
- Other factors beyond our control such as natural disasters, terrorism, civil unrest, war and infectious diseases.

If any of the foreign economies in which we do business deteriorate or if we fail to effectively manage our global operations, our business and results of operations will be harmed.

In addition, our global operations are subject to numerous U.S. and foreign laws and regulations, including those related to anti-corruption, tax, corporate governance, imports and exports, financial and other disclosures, privacy and labor relations. These laws and regulations are complex and may have differing or conflicting legal standards, making compliance difficult and costly. If we violate these laws and regulations we could be subject to fines, penalties or criminal sanctions, and may be prohibited from conducting business in one or more countries. Although we have implemented policies and procedures to ensure compliance with these laws and regulations, there can be no assurance that our employees, contractors or agents will not violate these laws and regulations.

Any violation individually or in the aggregate could have a material adverse effect on our operations and financial condition.

Our financial statements are also affected by fluctuations in foreign currency exchange rates. A weakening U.S. dollar relative to other currencies increases expenses of our foreign subsidiaries when they are translated into U.S. dollars in our consolidated statement of operations. Likewise, a strengthening U.S. dollar relative to other currencies, especially the Japanese Yen, reduces revenue of our foreign subsidiaries upon translation and consolidation. Exchange rates are subject to significant and rapid fluctuations, and therefore we cannot predict the prospective impact of exchange rate fluctuations. Although we engage in foreign currency hedging activity, we may be unable to hedge all of our foreign currency risk, which could have a negative impact on our results of operations.

Liquidity requirements in our U.S. operations may require us to raise cash in uncertain capital markets, which could negatively affect our financial condition.

As of October 31, 2014, approximately 83.6% of our worldwide cash and cash equivalents balance is held by our international subsidiaries in their own accounts outside the United States. At present, such foreign funds are considered to be indefinitely reinvested abroad, to the extent they are derived from foreign earnings we have indefinitely reinvested in our foreign operations. We intend to meet our U.S. cash spending needs through our existing U.S. cash balances, ongoing U.S. cash flows, and available credit under our term loan and revolving credit facilities. As of October 31, 2014, we had outstanding debt of \$75.0 million under our \$150 million term loan facility and no outstanding debt under our \$350 million revolving credit facility. In December 2014, we drew down \$250.0 million under our revolving credit facility. Should our U.S. cash spending needs rise and exceed these liquidity sources, we may be required to incur additional debt at higher than anticipated interest rates or access other funding sources, which could negatively affect our results of operations, capital structure or the market price of our common stock.

From time to time we are subject to claims that our products infringe on third-party intellectual property rights.

We are from time to time subject to claims alleging our infringement of third-party intellectual property rights, including patent rights. For example, we and Emulation & Verification Engineering S.A. (EVE), a company we acquired in October 2012, are party to ongoing patent infringement lawsuits involving Mentor Graphics Corporation. The jury in one of the lawsuits returned a verdict of approximately \$36 million in assessed damages against us for patent infringement, which we plan to appeal. Further information regarding the EVE lawsuits is contained in Part I, Item 3, *Legal Proceedings*. In addition, under our customer agreements and other license agreements, we agree in many cases to indemnify our customers if our products infringe a third party's intellectual property rights. Infringement claims can result in costly and time-consuming litigation, require us to enter into royalty arrangements, subject us to damages or injunctions restricting our sale of products, invalidate a patent or family of patents, require us to refund license fees to our customers or to forgo future payments or require us to redesign certain of our products, any one of which could harm our business and operating results.

Product errors or defects could expose us to liability and harm our reputation and we could lose market share.

Software products frequently contain errors or defects, especially when first introduced, when new versions are released or when integrated with technologies developed by acquired companies. Product errors could affect the performance or interoperability of our products, could delay the development or release of new products or new versions of products and could adversely affect market acceptance or perception of our products. In addition, allegations of manufacturability issues resulting from use of our IP products could, even if untrue, adversely affect our reputation and our customers' willingness to license IP products from us. Any such errors or delays in releasing new products or new versions of products or allegations of unsatisfactory performance could cause us to lose customers, increase our service costs, subject us to liability for damages and divert our resources from other tasks, any one of which could materially and adversely affect our business and operating results.

Cybersecurity threats or other security breaches could compromise sensitive information belonging to us or our customers and could harm our business and our reputation, particularly that of our Coverity security testing solutions.

We store sensitive data, including intellectual property, our proprietary business information and that of our customers, and confidential employee information, in our data centers and on our networks. Despite our security measures, our information technology and infrastructure may be vulnerable to attacks by hackers or breached due to employee error, malfeasance or other disruptions that could result in unauthorized disclosure or loss of sensitive information. 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, we may be unable to anticipate these techniques or to implement adequate preventative measures. Furthermore, in the operation of our business we also use third-party vendors that store certain sensitive data, including confidential information about our employees, and these third parties are subject to their own cybersecurity threats. Any security breach of our own or a third-party vendor's systems could cause us to be non-compliant with applicable laws or regulations, subject us to legal claims or proceedings, disrupt our operations, damage our reputation, and cause a loss of confidence in our products and services, any of which could adversely affect our business.

We recently began offering software quality and security testing solutions as a result of our acquisition of Coverity. Cybersecurity attacks are increasingly sophisticated, change frequently, and often go undetected until after an attack has been launched. If we fail to identify these new and complex methods of attack, or fail to invest sufficient resources in research and development regarding new threat vectors, our Coverity security testing products may fail to detect vulnerabilities in our customers' software code. An actual or perceived failure to identify security flaws may harm the perceived reliability of our Coverity products and could result in a loss of customers, sales, or an increased cost to remedy a problem. Furthermore, our acquisition of Coverity may increase our visibility as a security-focused company and may make us a more attractive target for attacks on our own information technology infrastructure.

We may be subject to litigation proceedings that could harm our business.

We may be subject to legal claims or regulatory matters involving stockholder, consumer, employment, competition, and other issues on a global basis. Litigation is subject to inherent uncertainties, and unfavorable rulings could occur. An unfavorable ruling could include monetary damages or, in cases for which injunctive relief is sought, an injunction prohibiting us from manufacturing or selling one or more products. If we were to receive an unfavorable ruling on a matter, our business and results of operations could be materially harmed. Further information regarding material pending lawsuits, other than ordinary routine litigation incidental to our business, is contained in Part I, Item 3, *Legal Proceedings*.

If we fail to timely recruit and retain senior management and key employees, our business may be harmed.

We depend in large part upon the services of key members of our senior management team to drive our future success. If we were to lose the services of any member of our senior management team, our business could be adversely affected. To be successful, we must also attract and retain key technical, sales and managerial employees, including those who join Synopsys in connection with acquisitions. There are a limited number of qualified EDA and IC design engineers, and competition for these individuals is intense and has increased. Our employees are often recruited aggressively by our competitors and our customers. Any failure to recruit and retain key technical, sales and managerial employees could harm our business, results of operations and financial condition. Additionally, efforts to recruit and retain qualified employees could be costly and negatively impact our operating expenses.

We issue stock options and restricted stock units and maintain employee stock purchase plans as a key component of our overall compensation. We face pressure to limit the use of such equity-based compensation due to its dilutive effect on stockholders. In addition, we are required under U.S. GAAP to recognize compensation expense in our results of operations for employee share-based equity compensation under our equity grants and our employee stock purchase plan, which increases the pressure to limit equity-based compensation. These factors may make it more difficult for us to grant attractive equity-based packages in the future, which could limit our ability to attract and retain key employees.

Our business is subject to evolving corporate governance and public disclosure regulations that have increased both our compliance costs and the risk of noncompliance, which could have an adverse effect on our stock price.

We are subject to changing rules and regulations promulgated by a number of governmental and self-regulatory organizations, including the SEC, the NASDAQ Stock Market, and the FASB. These rules and regulations continue to evolve in scope and complexity and many new requirements have been created in response to laws enacted by Congress, making compliance more difficult and uncertain. For example, our efforts to comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act and other new regulations, including "conflict minerals" regulations affecting our hardware products, have resulted in, and are likely to continue to result in, increased general and administrative expenses and a diversion of management time and attention from revenue-generating activities to compliance activities.

There are inherent limitations on the effectiveness of our controls and compliance programs.

Regardless of how well designed and operated it is, a control system can provide only reasonable assurance that its objectives will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. Moreover, although we have implemented compliance programs and compliance training for employees, such measures may not prevent our employees, contractors or agents from breaching or circumventing our policies or violating applicable laws and regulations. Failure of our control systems and compliance programs to prevent error, fraud or violations of law could have a material adverse impact on our business.

Our investment portfolio may be impaired by the deterioration of capital markets.

Our cash equivalent portfolio currently consists of tax-exempt money market mutual funds, taxable money market mutual funds and bank deposits. In general, our investment portfolio may carry both interest rate risk and credit risk. We may hold fixed rate debt securities that can have their market value adversely impacted due to a credit downgrade or a rise in interest rates, or floating rate securities that may produce less income than expected if interest rates fall or a credit downgrade occurs. As a result of capital pressures on certain banks, especially in Europe, and the continuing low interest rate environment, some of our financial instruments may become impaired.

Our future investment income may fall short of expectations due to changes in interest rates or if the decline in fair value of investments held by us is judged to be other-than-temporary.

In preparing our financial statements we make certain assumptions, judgments and estimates that affect amounts reported in our consolidated financial statements, which, if not accurate, may significantly impact our financial results.

We make assumptions, judgments and estimates for a number of items, including the fair value of financial instruments, goodwill, long-lived assets and other intangible assets, the realizability of deferred tax assets, the recognition of revenue and the fair value of stock awards. We also make assumptions, judgments and estimates in determining the accruals for employee-related liabilities, including commissions and variable compensation, and in determining the accruals for uncertain tax positions, allowances for doubtful accounts, and legal contingencies. These assumptions, judgments and estimates are drawn from historical experience and various other factors that we believe are reasonable under the circumstances as of the date of the consolidated financial statements. Actual results could differ materially from our estimates, and such differences could significantly impact our financial results.

Catastrophic events may disrupt our business and harm our operating results.

Due to the global nature of our business, our operating results may be negatively impacted by catastrophic events throughout the world. We rely on a global network of infrastructure applications, enterprise applications and technology systems for our development, marketing, operational, support and sales activities. A disruption or failure of these systems in the event of a major earthquake, fire, telecommunications failure, cybersecurity attack, terrorist attack, epidemic, or other catastrophic event could cause system interruptions, delays in our product development and loss of critical data and could prevent us from fulfilling our customers' orders. Moreover, our corporate headquarters, a significant portion of our research and development activities, our data centers, and certain other critical business operations are located in California, near major earthquake faults. A catastrophic event that results in the destruction or disruption of our data centers or our critical business or information technology systems would severely affect our ability to conduct normal business operations and, as a result, our operating results would be adversely affected.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our principal offices are located in four adjacent buildings in Mountain View, California, which together provide approximately 400,000 square feet of available space. This space is leased through February 2015. We also lease approximately 237,000 square feet of space in three separate buildings in Sunnyvale, California, with lease expiration dates ranging from September 2019 to October 2019. We own one building in Sunnyvale, California with approximately 120,000 square feet of space. These buildings in Mountain View and Sunnyvale are used for research and development, sales and support, marketing, and administrative activities.

In addition, in October 2011, we agreed to lease two office buildings to be constructed in Mountain View, California. Once construction is complete, the buildings together will provide approximately 341,000 square feet. The lease of such premises begins on March 1, 2015. We may elect for early occupancy if certain conditions are met. We expect these premises, located at 690 E. Middlefield Road, Mountain View, to become our new corporate headquarters.

We currently lease 29 other offices throughout the United States, and own 2 office buildings in Oregon, one of which is leased to a tenant. These offices are used primarily for sales and support activities as well as research and development.

International Facilities

We lease additional space for sales, service and research and development activities in approximately 25 countries throughout the world, including 25,000 square feet in Dublin, Ireland for our international headquarters, as well as significant sites in Yerevan, Armenia, Bangalore, India and Shanghai, China. In addition, we own two buildings in Hsinchu, Taiwan with approximately 211,000 square feet of combined space.

We believe that our existing facilities, including both owned and leased properties, are in good condition and suitable for the current conduct of our business.

Item 3. Legal Proceedings

We are subject to routine legal proceedings, as well as demands, claims and threatened litigation that arise in the normal course of our business. The ultimate outcome of any litigation is uncertain and unfavorable outcomes could have a negative impact on our results of operations and financial condition. Regardless of outcome, litigation can have an adverse impact on Synopsys because of the defense costs, diversion of management resources and other factors.

Mentor Patent Litigation

We are engaged in complex patent litigation with Mentor Graphics Corporation (Mentor) involving several actions in different forums. We acquired Emulation & Verification Engineering S.A. (EVE) on October 4, 2012. At the time of the acquisition, EVE and EVE-USA, Inc. (collectively, the EVE Parties) were defendants in three patent infringement lawsuits filed by Mentor. Mentor filed suit against the EVE Parties in federal district court in the District of Oregon on August 16, 2010 alleging that EVE's ZeBu products infringed Mentor's United States Patent No. 6,876,962. Mentor filed an additional suit in federal district court in the District of Oregon on August 17, 2012 alleging that EVE's ZeBu products infringed Mentor's United States Patent No. 6,947,882. Both cases sought compensatory damages, including lost profits and royalties, and a permanent injunction. Mentor also filed a patent infringement lawsuit against Nihon EVE K.K. in Tokyo District Court in 2010 alleging that EVE's ZeBu series of products infringes Mentor's Japanese Patent No. P3,588,324. This case seeks compensatory damages, a permanent injunction and destruction of inventory.

On September 27, 2012, Synopsys and the EVE Parties filed an action for declaratory relief against Mentor in federal district court in the Northern District of California, seeking a determination that Mentor's United States Patents Nos. 6,009,531; 5,649,176 and 6,240,376, which were the subject of a patent infringement lawsuit filed by Mentor against EVE in 2006 and settled in the same year, are invalid and not infringed by EVE's products, and that Mentor is without right or authority to threaten or maintain suit against the plaintiffs on such patents. Mentor asserted patent infringement counterclaims in this action based on the same three patents and sought compensatory damages, including lost profits and royalties, and a permanent injunction. In April 2013, this action was transferred to the federal district court in Oregon and consolidated with the two Mentor lawsuits in that district (the Oregon Action).

The Oregon Action

In the Oregon Action, Synopsys and the EVE Parties further asserted patent infringement counterclaims against Mentor based on Synopsys' United States Patents Nos. 6,132,109 and 7,069,526, seeking compensatory damages and a permanent injunction. On February 21, 2014, the court granted Mentor's motion for partial summary judgment based on assignor estoppel, in which Mentor argued Synopsys was barred from challenging the validity of Mentor's '376 patent. In July 2014, the court granted Synopsys' motion for partial summary judgment on the '531 and '176 patents, finding that Mentor was barred from asserting those patents under the doctrine of *res judicata*. The court also granted cross-motions for partial summary judgment brought by both parties, finding that Mentor's '962 and '882 patents and Synopsys' '109 and '526 patents were non-infringed and/or invalid. As a result of these rulings, the only patent remaining at issue in the Oregon Action is Mentor's '376 patent.

The Oregon Action went to trial on the remaining Mentor patent, and a jury reached a verdict on October 10, 2014 finding that certain features of the ZeBu products infringed the '376 patent and assessing damages of approximately \$36 million. Mentor has also filed a request for injunction based on the jury verdict. Synopsys is opposing Mentor's request for injunction and intends to appeal from the verdict.

The California Action

On December 21, 2012, Synopsys filed an action for patent infringement against Mentor in federal district court in the Northern District of California, alleging that Mentor's Veloce products infringe Synopsys' United States Patents Nos. 5,748,488, 5,530,841, 5,680,318 and 6,836,420 (the California Action). This case seeks compensatory damages and a permanent injunction. The court stayed the action as to the '420 patent pending the U.S. Patent and Trademark Office's *inter partes* review of that patent (discussed below), and it scheduled trial of Synopsys' remaining claims for March 2, 2015.

PTO Proceedings

On September 26, 2012, Synopsys filed two *inter partes* review requests with the U.S. Patent and Trademark Office (the PTO) challenging the validity of Mentor's '376 and '882 patents. The PTO granted review of the '376 patent and denied review of the '882 patent. On February 19, 2014, the PTO issued its final decision in the review of the '376 patent, finding some of the challenged claims invalid and some of the challenged claims valid. On April 22, 2014, Synopsys appealed to the Federal Circuit from the PTO's decision. Mentor filed a cross-appeal on May 2, 2014.

On December 21, 2013, Mentor filed an *inter partes* review request with the PTO challenging the validity of Synopsys' '420 patent. On June 12, 2014, the PTO granted review of the '420 patent.

Item 4. Mine Safety Disclosures

Not applicable.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Common Stock Market Price

Our common stock trades on the NASDAQ Global Select Market under the symbol "SNPS." The following table sets forth for the periods indicated the high and low sale prices of our common stock, as reported by the NASDAQ Global Select Market.

| | | Quarter Ended | | | | | | | | | | | |
|------|----|---------------|-----------|-------|----|----------|-------------|-------|--|--|--|--|--|
| | Ja | nuary 31, | April 30, | | | July 31, | October 31, | | | | | | |
| 2014 | | | | | | | | | | | | | |
| High | \$ | 41.57 | \$ | 41.10 | \$ | 39.37 | \$ | 41.75 | | | | | |
| Low | \$ | 35.72 | \$ | 36.38 | \$ | 36.84 | \$ | 37.28 | | | | | |
| 2013 | | | | | | | | | | | | | |
| High | \$ | 33.92 | \$ | 35.88 | \$ | 38.03 | \$ | 38.40 | | | | | |
| Low | \$ | 31.27 | \$ | 33.72 | \$ | 35.12 | \$ | 35.52 | | | | | |

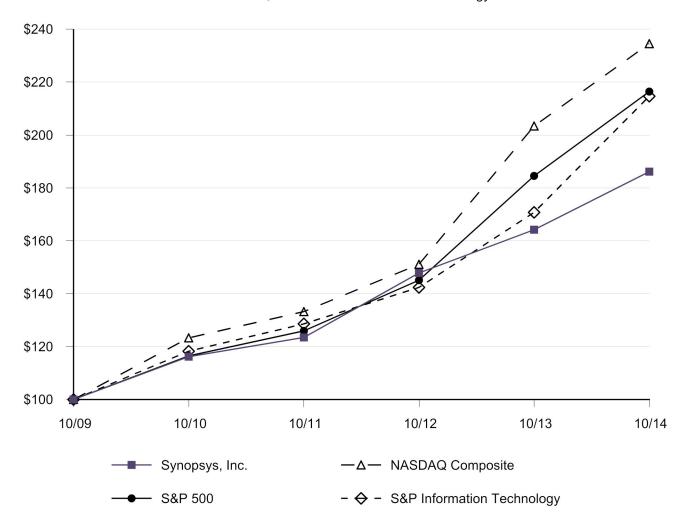
As of October 31, 2014, we had 351 stockholders of record. To date, we have paid no cash dividends on our capital stock and have no current intention to do so. Our credit facility contains financial covenants requiring us to maintain certain specified levels of cash and cash equivalents. Such provisions could have the effect of preventing us from paying dividends in the future. See Note 5 of *Notes to Consolidated Financial Statements* for further information regarding our credit facility.

Performance graph

The following graph compares the 5-year total return to stockholders of our common stock relative to the cumulative total returns of the S&P 500 Index, the S&P Information Technology Index and the NASDAQ Composite Index. The graph assumes that \$100 was invested in Synopsys common stock on October 30, 2009 (the last trading day before the beginning of our fifth preceding fiscal year) and in each of the indexes on October 31, 2009 (the closest month end) and that all dividends were reinvested. No cash dividends were declared on our common stock during such time. The comparisons in the table are required by the SEC and are not intended to forecast or be indicative of possible future performance of our common stock.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN*

Among Synopsys, Inc., the NASDAQ Composite Index, the S&P 500 Index, and the S&P Information Technology Index



*\$100 invested on 10/31/09 in stock or index, including reinvestment of dividends. Indexes calculated on month-end basis. Stock calculated on fiscal year-end basis.

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The information presented above in the stock performance graph shall not be deemed to be "soliciting material" or to be "filed" with the SEC or subject to Regulation 14A or 14C, except to the extent that we subsequently specifically request that such information be treated as soliciting material or specifically incorporate it by reference into a filing under the Securities Act or Exchange Act.

Stock Repurchase Program

Our Board of Directors (Board) approved a stock repurchase program in 2002 pursuant to which we were authorized to purchase up to \$500.0 million of our common stock, and has periodically replenished the stock repurchase program to such amount. Our Board replenished the stock repurchase program up to \$500.0 million on December 3, 2013, as announced on December 4, 2013. The program does not obligate Synopsys to acquire any particular amount of common stock, and the program may be suspended or terminated at any time by Synopsys' Chief Financial Officer or our Board. We repurchase shares to offset dilution caused by ongoing stock issuances from existing equity plans for equity compensation awards and issuances related to acquisitions, and when management believes it is a good use of cash. Repurchases are transacted in accordance with Rule 10b-18 of the Securities Exchange Act of 1934 (Exchange Act) and may be made through any means including, but not limited to, open market purchases, plans executed under Rule 10b5-1(c) of the Exchange Act and structured transactions. As of October 31, 2014, \$380.3 million remained available for further repurchases under the program.

The table below sets forth information regarding our repurchases of our common stock during the three months ended October 31, 2014.

| <u>Period</u> | Total number of shares purchased | Average price paid per share | Total number of shares purchased as part of publicly announced programs | Maximum dollar value of shares that may yet be purchased under the programs |
|---|---|------------------------------------|---|---|
| Month #1 | | | | |
| August 3, 2014 through September 6, 2014 | _ | \$ _ | _ | \$ 420,252,825 |
| Month #2 | | | | |
| September 7, 2014 through October 4, 2014 | _ | \$ _ | _ | \$ 420,252,825 |
| Month #3 | | | | |
| October 5, 2014 through November 1, 2014 | 1,042,555 | 38.3673 | 1,042,555 | \$ 380,252,833 |
| Total | 1,042,555 | \$ 38.3673 | 1,042,555 | \$ 380,252,833 |
| | | | | |

See Note 9 of *Notes to Consolidated Financial Statements* for further information regarding our stock repurchase program.

In December 2014, we entered into an accelerated share repurchase agreement (2015 ASR) to repurchase an aggregate of \$180.0 million of our common stock. Pursuant to the 2015 ASR, we made a prepayment of \$180.0 million and received an initial share delivery of shares valued at \$144.0 million with an average purchase price of \$43.77 per share. The remaining balance of \$36.0 million will be settled within six months or earlier upon completion of the repurchase. Under the terms of the 2015 ASR, the specific number of shares that we ultimately repurchase will be based on the volume weighted average share price of our common stock during the repurchase period, less a discount.

Item 6. Selected Financial Data

| | | Fiscal Year Ended October 31,(1)(2) | | | | | | | | | | |
|---|----|-------------------------------------|----|-----------|------|------------------|------|-----------|----|-----------|--|--|
| | | 2014 | | 2013 | | 2012 | | 2011 | | 2010 | | |
| | | | | (in thous | ands | s, except per sl | nare | data) | | _ | | |
| Revenue | \$ | 2,057,472 | \$ | 1,962,214 | \$ | 1,756,017 | \$ | 1,535,643 | \$ | 1,380,661 | | |
| Income before provisions for income taxes | | 272,142 | | 275,666 | | 201,135 | | 219,113 | | 198,658 | | |
| Provision (benefit) for income taxes(3) | | 13,018 | | 27,866 | | 18,733 | | (2,251) | | (38,405) | | |
| Net income | | 259,124 | | 247,800 | | 182,402 | | 221,364 | | 237,063 | | |
| Net income per share: | | | | | | | | | | | | |
| Basic | | 1.67 | | 1.62 | | 1.24 | | 1.51 | | 1.60 | | |
| Diluted | | 1.64 | | 1.58 | | 1.21 | | 1.47 | | 1.56 | | |
| Working capital | | 117,976 | | 225,058 | | (111,983) | | 327,735 | | 325,987 | | |
| Total assets | | 4,775,499 | | 4,358,935 | | 4,147,656 | | 3,368,844 | | 3,286,541 | | |
| Long-term debt | | 45,000 | | 75,000 | | 105,000 | | _ | | _ | | |
| Stockholders' equity | | 3,056,170 | | 2,788,277 | | 2,543,971 | | 2,101,300 | | 2,100,182 | | |

- (1) Our fiscal year generally ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. Fiscal 2014 and fiscal 2013 were 52-week years ending on November 1, 2014 and November 2, 2013, respectively. Fiscal 2012 was a 53-week year ending on November 3, 2012. Fiscal 2011 and 2010 were 52-week years.
- (2) Includes results of operations from business combinations from the date of acquisition. See Note 3 of *Notes to Consolidated Financial Statements*.
- (3) Includes \$19.6 million, \$1.1 million, \$36.9 million, \$32.8 million, and \$94.3 million in tax benefits from tax settlements received in fiscal years 2014, 2013, 2012, 2011, and 2010, respectively. See Note 11 of *Notes to Consolidated Financial Statements*.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

Overview

The following summary of our financial condition and results of operations is qualified in its entirety by the more complete discussion contained in this Item 7 and by the risk factors set forth in Item 1A of this Annual Report. Please also see the cautionary language at the beginning of Part I of this Annual Report regarding forward-looking statements.

Business Summary

Synopsys is a global leader in providing software, intellectual property and services used to design integrated circuits and electronic systems. We supply the electronic design automation (EDA) software that engineers use to design, create prototypes for and test integrated circuits, also known as chips. We also offer intellectual property (IP) products, which are pre-designed circuits that engineers use as components of larger chip designs rather than designing those circuits themselves. We provide software and hardware used to develop the electronic systems that incorporate chips and the software that runs on them. To complement these product offerings, we provide technical services to support our solutions and help our customers develop chips and electronic systems. We are also a leading provider of software tools that developers use to improve the quality, security, and time-to-market of software code in a wide variety of industries, including electronics, financial services, energy, and industrials.

Our EDA and IP customers are generally semiconductor and electronics systems companies. Our solutions help them overcome the challenge of developing increasingly advanced electronics products while reducing their design and manufacturing costs. While our products are an important part of our customers' development process, our customers' research and development budget and spending decisions may be affected by their business outlook and their willingness to invest in new and increasingly complex chip designs.

Despite global economic uncertainty, we have maintained profitability and positive cash flow on an annual basis in recent years. We achieved these results not only because of our solid execution, leading technology and strong customer relationships, but also because of our time-based revenue business model. Under this model, a substantial majority of our customers pay for their licenses over time and we typically recognize this revenue over the life of the contract, which averages approximately three years. Time-based revenue, which consists of time-based license, maintenance and service revenue, generally represents approximately 90% of our total revenue. The revenue we recognize in a particular period generally results from selling efforts in prior periods rather than the current period. Due to our business model, decreases as well as increases in customer spending do not immediately affect our revenues in a significant way.

As we continue to expand our product portfolio and our total addressable market, for instance in IP products, we may experience increased variability in our revenue, though we expect time-based revenue to continue to generally represent approximately 90% of our total revenue. Overall, our business outlook remains solid based on our leading technology, customer relationships, business model, diligent expense management, and acquisition strategy. We believe that these factors will help us continue to successfully execute our strategies.

Acquisition of Coverity

On March 24, 2014, we acquired Coverity, Inc. (Coverity), the leading provider of software quality, testing and security tools. We believe this acquisition has enabled us to enter into a new, growing market dedicated to helping companies deliver better software faster, by finding software code defects as the code is being developed rather than at the end of the process. Coverity's customer base includes Synopsys' semiconductor and systems customers, albeit different users and budgets, and extends well beyond to software developers such as independent software vendors and companies engaged in e-commerce. We believe the Coverity acquisition has expanded our total addressable market. However, due to the fair value adjustment of acquired deferred revenue and amortization of intangible assets, the acquisition had a negative effect on net income for fiscal 2014 and will continue to have a negative effect in the short term. We report revenue from our Coverity software quality, testing and security tools in our IP and Software Solutions group.

Fiscal Year End

Our fiscal year generally ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year.

Fiscal 2014 and 2013 were 52-week years ending on November 1, 2014 and November 2, 2013, respectively. Fiscal 2012 was a 53-week year ending on November 3, 2012. The extra week in fiscal 2012 resulted in approximately \$26 million of additional revenue, related primarily to time-based licenses, and approximately \$16 million of additional expenses.

For presentation purposes, this Form 10-K refers to October 31 as the end of our fiscal year.

Fiscal 2014 Financial Performance Summary

In fiscal 2014, compared to fiscal 2013, we delivered:

- Total revenue of \$2.1 billion, which included the impact from our current year acquisitions, an increase of 5%,
- Diluted earnings per share of \$1.64, an increase of 4%.
- \$3.5 billion in non-cancellable backlog, an increase of 13%, and
- Cash flow from operations of \$551.0 million for the year, an increase of 11%.

In addition, our current year results benefited from a lower provision for income taxes.

We continued to derive more than 90% of our revenue from time-based revenue in fiscal 2014.

New Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2014-09, "Revenue from Contracts with Customers (Topic 606)," which supersedes nearly all existing revenue recognition guidance under U.S. GAAP. The new guidance will be effective for fiscal 2018, including interim periods within that reporting period, using one of two prescribed retrospective methods. No early adoption is permitted. We are currently in the process of evaluating the impact of the adoption of ASU 2014-09 on our consolidated financial statements and related disclosures.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial results under the heading "Results of Operations" below are based on our audited results of operations, which we have prepared in accordance with U.S. GAAP. In preparing these financial statements, we make assumptions, judgments and estimates that can affect the reported amounts of assets, liabilities, revenues and expenses and net income. On an ongoing basis, we evaluate our estimates based on historical experience and various other assumptions we believe are reasonable under the circumstances. Our actual results may differ from these estimates. For further information on our significant accounting policies, see Note 2 of *Notes to Consolidated Financial Statements*.

The accounting policies that most frequently require us to make assumptions, judgments and estimates, and therefore are critical to understanding our results of operations, are:

- Revenue recognition;
- Valuation of stock compensation;
- Valuation of intangible assets; and
- Income taxes.

Revenue Recognition

We derive revenue primarily from our software license arrangements. Software license revenue consists of fees associated with the licensing of our software. Maintenance and service revenue consists of maintenance fees associated with perpetual and term licenses and professional services fees. Hardware revenue consists of FPGA-based emulation and prototyping products.

With respect to software licenses, we utilize three license types:

- Technology Subscription Licenses (TSLs). TSLs are time-based licenses for a finite term, and generally provide the customer limited rights to receive, or to exchange certain quantities of licensed software for, unspecified future technology. We bundle and do not charge separately for post-contract customer support (maintenance) for the term of the license.
- Term licenses. Term licenses are also for a finite term, but do not provide the customer any rights to receive, or to exchange licensed software for, unspecified future technology. Customers purchase maintenance separately for the first year and may renew annually for the balance of the term. The annual maintenance fee is typically calculated as a percentage of the net license fee.
- Perpetual licenses. Perpetual licenses continue as long as the customer renews maintenance plus an additional 20 years. Perpetual licenses do not provide the customer any rights to receive, or to exchange licensed software for, unspecified future technology. Customers purchase maintenance separately for the first year and may renew annually.

For the three software license types, we recognize revenue as follows:

- TSLs. We typically recognize revenue from TSL fees (which include bundled maintenance) ratably
 over the term of the license period, or as customer installments become due and payable,
 whichever is later. Revenue attributable to TSLs is reported as "time-based license revenue" in the
 consolidated statements of operations.
- Term licenses. We recognize revenue from term licenses in full upon shipment of the software if
 payment terms require the customer to pay at least 75% of the license fee and 100% of the
 maintenance fee within one year from shipment and all other revenue recognition criteria are met.
 Revenue attributable to these term licenses is reported as "upfront license revenue" in the
 consolidated statements of operations. For term licenses in which less than 75% of the license fee

- and 100% of the maintenance fee is payable within one year from shipment, we recognize revenue as customer payments become due and payable. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations.
- Perpetual licenses. We recognize revenue from perpetual licenses in full upon shipment of the software if payment terms require the customer to pay at least 75% of the license fee and 100% of the maintenance fee within one year from shipment and all other revenue recognition criteria are met. Revenue attributable to these perpetual licenses is reported as "upfront license revenue" in the consolidated statements of operations. For perpetual licenses in which less than 75% of the license fee and 100% of the maintenance fee is payable within one year from shipment, we recognize revenue as customer installments become due and payable. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations.

Our maintenance and service revenue consists of maintenance fees associated with perpetual and term software licenses and professional services fees. We recognize revenue from maintenance arrangements ratably over the maintenance period to the extent cash has been received or fees become due and payable, and recognize revenue from professional services and training fees as such services are performed and accepted by the customer. Revenue attributable to maintenance, professional services and training is reported as "maintenance and service revenue" in the consolidated statements of operations.

Hardware revenue consists of FPGA-based emulation and prototyping products. We recognize revenue from sales of hardware products in full upon shipment if all other revenue recognition criteria are met. Revenue attributable to these sales is reported as "upfront license revenue" in the consolidated statements of operations and is not material to our total revenue.

We also enter into arrangements in which portions of revenue are contingent upon the occurrence of uncertain future events, for example, royalty arrangements. We refer to this revenue as "contingent revenue." Contingent revenue is recognized if and when the applicable event occurs. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations. These arrangements are not material to our total revenue.

We infrequently enter into multiple-element arrangements that contain both software and non-software deliverables such as hardware. We have determined that the software and non-software deliverables in our contracts are separate units of accounting. We recognize revenue for the separate units of accounting when all revenue recognition criteria are met. Revenue allocated to hardware units of accounting is recognized upon shipment when all other revenue recognition criteria are met. Revenue allocated to software units of accounting is recognized depending on the software license type (TSL, term license or perpetual license). Such arrangements have not had a material effect on our consolidated financial statements and are not expected to have a material effect in future periods.

We also enter into arrangements to deliver software products, either alone or together with other products or services that require significant modification, or customization of the software. We account for such arrangements using the percentage of completion method as we have the ability to make reasonably dependable estimates that relate to the extent of progress toward completion, contract revenues and costs. We measure the progress towards completion using the labor hours incurred to complete the project. Revenue attributable to these arrangements is reported as maintenance and service revenue in the consolidated statements of operations.

We determine the fair value of each element in multiple element software arrangements that only contain software and software-related deliverables based on vendor-specific objective evidence (VSOE). We limit our assessment of VSOE of fair value for each element to the price charged when such element is sold separately. We have analyzed all of the elements included in our multiple-element software arrangements and have determined that we have sufficient VSOE to allocate revenue to the maintenance components of our perpetual and term license products and to professional services. Accordingly, assuming all other revenue recognition criteria are met, we recognize license revenue from perpetual and term licenses upon delivery using the residual method, recognize revenue from maintenance ratably over the maintenance term, and recognize revenue from professional services as services are performed and accepted by the customer. We recognize revenue from TSLs ratably over the term of the license, assuming all other revenue recognition criteria are met, since there is not sufficient VSOE to allocate the TSL fee between license and maintenance services.

We make significant judgments related to revenue recognition. Specifically, in connection with each transaction involving our products, we must evaluate whether: (1) persuasive evidence of an arrangement exists, (2) delivery of software or services has occurred, (3) the fee for such software or services is fixed or determinable, and (4) collectability of the full license or service fee is probable. All four of these criteria must be met in order for us

to recognize revenue with respect to a particular arrangement. We apply these revenue recognition criteria as follows:

- Persuasive Evidence of an Arrangement Exists. Prior to recognizing revenue on an arrangement, our customary policy is to have a written contract, signed by both the customer and by us or a purchase order from those customers that have previously negotiated a standard end-user license arrangement or purchase agreement.
- Delivery Has Occurred. We deliver our products to our customers electronically or physically. For
 electronic deliveries, delivery occurs when we provide access to our customers to take immediate
 possession of the software through downloading it to the customer's hardware. For physical
 deliveries, the standard transfer terms are typically Freight on Board (FOB) shipping point. We
 generally ship our products or license keys promptly after acceptance of customer orders.
 However, a number of factors can affect the timing of product shipments and, as a result, timing of
 revenue recognition, including the delivery dates requested by customers and our operational
 capacity to fulfill product orders at the end of a fiscal quarter.
- The Fee Is Fixed or Determinable. Our determination that an arrangement fee is fixed or determinable depends principally on the arrangement's payment terms. Our standard payment terms for perpetual and term licenses require 75% or more of the license fee and 100% of the maintenance fee to be paid within one year. If the arrangement includes these terms, we regard the fee as fixed or determinable, and recognize all license revenue under the arrangement in full upon delivery (assuming all other revenue recognition criteria are met). If the arrangement does not include these terms, we do not consider the fee to be fixed or determinable and generally recognize revenue when customer installments are due and payable. In the case of a TSL, because of the right to exchange products or receive unspecified future technology and because VSOE for maintenance services does not exist for a TSL, we recognize revenue ratably over the term of the license, but not in advance of when customers' installments become due and payable.
- Collectability Is Probable. We judge collectability of the arrangement fees on a customer-bycustomer basis pursuant to our credit review policy. We typically sell to customers with whom we
 have a history of successful collection. For a new customer, or when an existing customer
 substantially expands its commitments, we evaluate the customer's financial position and ability to
 pay and typically assign a credit limit based on that review. We increase the credit limit only after
 we have established a successful collection history with the customer. If we determine at any time
 that collectability is not probable under a particular arrangement based upon our credit review
 process or the customer's payment history, we recognize revenue under that arrangement as
 customer payments are actually received.

Valuation of Stock Compensation

Stock compensation expense is measured on the grant date based on the fair value of the award and is recognized as expense over the vesting period in accordance with ASC 718, *Stock Compensation*. We use the Black-Scholes option-pricing model to determine the fair value of stock options and employee stock purchase plan awards. The Black-Scholes option-pricing model incorporates various subjective assumptions including expected volatility, expected term and risk-free interest rates. We estimate the expected volatility by a combination of implied volatility for publicly traded options of our stock with a term of six months or longer and the historical stock price volatility over the estimated expected term of our stock awards. We determine the expected term of our stock awards based on historical experience. In addition, judgment is required in estimating the forfeiture rate on stock awards. We calculate the expected forfeiture rate based on average historical trends. These input factors are subjective and are determined using management's judgment. If a difference arises between the assumptions used in determining stock compensation cost and the actual factors that become known over time, we may change the input factors used in determining future stock compensation costs. Any such changes could materially impact our results of operations in the period in which the changes are made and in periods thereafter.

Valuation of Intangible Assets

We evaluate our intangible assets for indications of impairment whenever events or changes in circumstances indicate that the carrying value may not be recoverable. Intangible assets consist of purchased technology, contract rights intangibles, customer relationships, trademarks and trade names, covenants not to compete, capitalized software development, and in-process research and development. Factors that could trigger an impairment review include significant under-performance relative to expected historical or projected future operating results, significant changes in the manner of our use of the acquired assets or the strategy for our overall business or significant negative industry or economic trends. If this evaluation indicates that the value of the intangible asset may be impaired, we make an assessment of the recoverability of the net carrying value of the asset over its remaining useful life. If this assessment indicates that the intangible asset is not recoverable, based on the estimated undiscounted future cash flows of the technology over the remaining useful life, we reduce the net carrying value of the related intangible asset to fair value. Any such impairment charge could be significant and could have a material adverse effect on our reported financial results. We did not record any impairment charges on our intangible assets during fiscal 2014, 2013 or 2012.

Income Taxes

Our tax provisions are calculated using estimates in accordance with ASC 740, *Income Taxes*. Our estimates and assumptions may differ from the actual results as reflected in our income tax returns and we record the required adjustments when they are identified or resolved.

We recognize deferred tax assets and liabilities for the temporary differences between the book and tax bases of assets and liabilities using enacted tax rates in effect for the year in which we expect the differences to reverse, and for tax loss and credit carryovers. We record a valuation allowance to reduce the deferred tax assets to the amount that is more likely than not to be realized. In evaluating our ability to utilize our deferred tax assets, we consider all available positive and negative evidence, including our past operating results, our forecast of future taxable income on a jurisdiction by jurisdiction basis, as well as feasible and prudent tax planning strategies. These assumptions require significant judgment about the forecasts of future taxable income and are consistent with the plans and estimates we are using to manage the underlying businesses. We believe that the net deferred tax assets of approximately \$316.2 million that are recorded on our balance sheet as of October 31, 2014 will ultimately be realized. However, if we determine in the future that it is more likely than not we will not be able to realize a portion or the full amount of deferred tax assets, we would record an adjustment to the deferred tax asset valuation allowance as a charge to earnings in the period such determination is made.

We apply a two-step approach to recognizing and measuring uncertain tax positions. The first step is to evaluate the tax position for recognition by determining whether it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount that is more than 50% likely of being realized upon ultimate settlement. An uncertain tax position is considered effectively settled on completion of an examination by a taxing authority if certain other conditions are satisfied.

The calculation of tax liabilities involves inherent uncertainty associated with the application of complex tax laws, significant assumptions, judgments and estimates including forward-looking financial projections and geographical mix of earnings. We are also subject to examination by various taxing authorities. We believe we have adequately provided in our financial statements for potential additional taxes. If we ultimately determine that these amounts are not owed, we would reverse the liability and recognize the tax benefit in the period in which we determine that the liability is no longer necessary. If an ultimate tax assessment exceeds our estimate of tax liabilities, we would record an additional charge to earnings.

Results of Operations

Revenue Background

We generate our revenue from the sale of software licenses, maintenance and professional services and to a small extent, hardware products. Under current accounting rules and policies, we recognize revenue from orders we receive for software licenses, services and hardware products at varying times. In most instances, we recognize revenue on a TSL software license order over the license term and on a term or perpetual software license order in the quarter in which the license is delivered. The weighted average license term of the TSLs and term licenses we entered into in fiscal 2014, 2013, and 2012 was 2.9 years, 3.6 years and 2.7 years, respectively. Revenue on contracts requiring significant modification or development is accounted for using the percentage of completion method over the period of the development. Revenue on hardware product orders is generally recognized in full at the time the product is shipped. Contingent revenue is recognized if and when the applicable event occurs.

Revenue on maintenance orders is recognized ratably over the maintenance period (normally one year).

Revenue on professional services orders is generally recognized after services are performed and accepted by the customer. Our revenue in any period is equal to the sum of our time-based license, upfront license, maintenance and professional services for the period. We derive time-based license revenue largely from TSL orders received and delivered in prior quarters and to a smaller extent due to contracts in which revenue is recognized as customer installments become due and payable and from contingent revenue arrangements. We derive upfront license revenue directly from term and perpetual license and hardware product orders mostly booked and shipped during the period. We derive maintenance revenue largely from maintenance orders received in prior periods since our maintenance orders generally yield revenue ratably over a term of one year. We also derive professional services revenue primarily from orders received in prior quarters, since we recognize revenue from professional services as those services are delivered and accepted or on percentage of completion for arrangements requiring significant modification of our software, and not when they are booked. Our license revenue is sensitive to the mix of TSLs and perpetual or term licenses delivered during a reporting period. A TSL order typically yields lower current quarter revenue but contributes to revenue in future periods. For example, a \$120,000 order for a three-year TSL delivered on the last day of a quarter typically generates no revenue in that quarter, but \$10,000 in each of the twelve succeeding quarters. Conversely, a \$120,000 order for perpetual and term licenses with greater than 75% of the license fee due within one year from shipment typically generates \$120,000 in revenue in the quarter the product is delivered, but no future revenue. Additionally, revenue in a particular quarter may also be impacted by perpetual and term licenses in which less than 75% of the license fees and 100% of the maintenance fees are payable within one year from shipment as the related revenue will be recognized as revenue in the period when customer payments become due and payable.

Our customer arrangements are complex, involving hundreds of products and various license rights, and our customers bargain with us over many aspects of these arrangements. For example, they often demand a broader portfolio of solutions, support and services and seek more favorable terms such as expanded license usage, future purchase rights and other unique rights at an overall lower total cost. No single factor typically drives our customers' buying decisions, and we compete on all fronts to serve customers in a highly competitive EDA market. Customers generally negotiate the total value of the arrangement rather than just unit pricing or volumes.

Total Revenue

| Year Ended October 31, | | | | | | | \$ Change % Change | | | \$ Change | % Change | | |
|------------------------|---------|-----------------------|---------|----|---------|--------------|--------------------|----|----|--------------|----------|---|--|
| | 2014 | | 2013 | | 2012 | 2013 to 2014 | | | | 2012 to 2013 | | | |
| | | (dollars in millions) | | | | | | | | | | | |
| \$ | 2,057.5 | \$ | 1,962.2 | \$ | 1,756.0 | \$ | 95.3 | 5% | \$ | 206.2 | 12 | % | |

The overall growth of our business has been the primary driver of the increase in our revenue. Our revenues are subject to fluctuations, primarily due to customer requirements, including payment terms and the timing and value of contract renewals. For example, we experience variability in our revenue due to factors such as the timing of renewals of maintenance contracts, timing of IP consulting projects and royalties, and certain contracts where revenue is recognized when customer installment payments are due, as well as volatility in hardware sales.

The sequential increase in total revenue from fiscal 2012 through fiscal 2014 was due to our organic growth and revenues from acquired companies. The increases were primarily in time-based license revenue. Fiscal 2012 had approximately \$26 million of additional revenue due to the additional week in that fiscal year.

Time-Based License Revenue

| | Yea | r Ended Octobe | r 31, | \$ Cha | nge % | % Change | \$ | Change | % Change |
|-----------------------------|------------|----------------|------------|---------------------|-------|----------|----|--------|----------|
| | 2014 | 2013 2012 | | 2013 to 2014 | | | | 2013 | |
| | | | (c | ollars in millions) | | | | | |
| | \$ 1,699.1 | \$ 1,599.5 | \$ 1,449.3 | \$ | 99.6 | 6% | \$ | 150.2 | 10% |
| Percentage of total revenue | 83% | 82% | 83% | | | | | | |

The increase in time-based license revenue for fiscal 2014 compared to fiscal 2013 was primarily attributable to increases in TSL license revenue due to our overall growth, including contributions of revenue from acquired companies.

The increase in time-based license revenue for fiscal 2013 compared to fiscal 2012 was primarily attributable to increases in TSL license revenue from arrangements booked in prior periods, including those from acquisitions in fiscal 2012 and particularly in the fourth quarter of fiscal 2012, and to a lesser extent, due to other time-based arrangements. The increase was partially offset by the impact of an extra week in fiscal 2012.

Upfront License Revenue

| | | Yea | r End | ded Octobe | r 31, | | \$ | Change | % Change | \$ | Change | % Change |
|-----------------------------|-------|-------|-------|------------|-------|-------|-----------------------|--------------|----------|--------------|--------|----------|
| | 2014 | | 2013 | | 2012 | | | 2013 to 2014 | | 2012 to 2013 | | o 2013 |
| | | | | | | (| (dollars in millions) | | | | | |
| | \$ | 135.8 | \$ | 132.0 | \$ | 105.1 | \$ | 3.8 | 3% | \$ | 26.9 | 26% |
| Percentage of total revenue | 7% 7% | | 6% | |) | | | | | | | |

Changes in upfront license revenue are generally attributable to normal fluctuations in customer requirements, which can drive the amount of upfront orders and revenue in any particular period.

Upfront license revenue for fiscal 2014 compared to fiscal 2013 was relatively flat with a slight increase in the sale of perpetual licenses to IP and Software Solutions products.

The increase in upfront license revenue for fiscal 2013 compared to fiscal 2012 was primarily attributable to the increase in sales of our hardware products and perpetual licenses to IP and Software Solutions products, including those derived from our acquisitions in the fourth quarter of fiscal 2012.

As our sales of hardware and perpetual licenses to IP and Software Solutions products grow, we expect upfront license revenue to increase as a percentage of total revenue, but remain consistent with our business model in which approximately 90% of our total revenue consists of time-based revenue.

Maintenance and Service Revenue

| | | Yea | r End | ded Octobe | r 31, | 31, \$ Change | | | % Change | \$ Change | | % Change |
|--|------|-------|-----------------------|------------|-------|---------------|--------------|-------|----------|--------------|------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to 2014 | | | 2012 to 2013 | | 2013 |
| | | | (dollars in millions) | | | | | | | | | |
| Maintenance revenue | \$ | 74.3 | \$ | 79.2 | \$ | 74.6 | \$ | (4.9) | (6)% | \$ | 4.6 | 6% |
| Professional service and other revenue | | 148.3 | | 151.5 | | 127.0 | \$ | (3.2) | (2)% | \$ | 24.5 | 19% |
| Total | \$ | 222.6 | \$ | 230.7 | \$ | 201.6 | \$ | (8.1) | (4)% | \$ | 29.1 | 14% |
| Percentage of total revenue | | 11% | | 12% | | 11% | | | | | | |

Changes in maintenance revenue are generally attributable to the timing and type of contracts that bundle maintenance. The fluctuations in maintenance revenue in fiscal 2014 compared to fiscal 2013 and in fiscal 2013 compared to fiscal 2012 were primarily due to timing.

The slight decrease in professional services and other revenue for fiscal 2014 compared to fiscal 2013 was primarily due to the timing of IP customization projects that are accounted for using the percentage of completion method.

The increase in professional services and other revenue for fiscal 2013 compared to fiscal 2012 was primarily due to an increase in IP consulting services.

Cost of Revenue and Operating Expenses

| | Yea | r Ended Octobe | r 31, | \$ CI | hange | % Change | \$ Change | % Change |
|---|------------|----------------|------------|-----------|-------------|-------------|--------------|----------|
| | 2014 | 2013 | 2012 | | 2013 to | 2014 | 2012 to | 2013 |
| | | | (c | lollars i | in millions | | | |
| Cost of revenue | \$ 456.9 | \$ 453.6 | \$ 392.7 | \$ | 3.3 | 1% | \$ 60.9 | 16% |
| Operating expenses | 1,351.9 | 1,262.2 | 1,173.3 | \$ | 89.7 | 7% | \$ 88.9 | 8% |
| Total | \$ 1,808.8 | \$ 1,715.8 | \$ 1,566.0 | \$ | 93.0 | 5% | \$ 149.8 | 10% |
| Total expenses as a percentage of total revenue | 88% | 87% | 89% | | | | | |

Our expenses are generally impacted by changes in personnel-related costs including salaries, benefits, stock compensation and variable compensation; changes in amortization; and changes in selling and marketing expenses. The increase in our expenses compared to prior fiscal years was primarily due to an increase in personnel-related costs, driven by increased headcount from our acquisitions and related fixed charges including facilities; amortization of intangible assets; and depreciation. The increases in our expenses for fiscal 2013 compared to fiscal 2012 were partially offset by the extra week of expenses in fiscal 2012 of \$16 million. We allocate certain human resource programs, information technology and facility expenses among our functional income statement categories based on headcount within each functional area. Annually, or upon a significant change in headcount (such as a workforce reduction, realignment or acquisition) or other factors, management reviews the allocation methodology and expenses included in the allocation pool.

Foreign currency fluctuations, net of hedging, did not have a significant impact on expenses during fiscal 2014 as compared to fiscal 2013, or fiscal 2013 as compared to fiscal 2012. See Note 5 of *Notes to Consolidated Financial Statements* for details on our foreign exchange hedging programs.

Cost of Revenue

| | Yea | r End | ded Octobe | r 31, | | \$ | Change | % Change | \$ Change | % Change |
|---|-------------|-------|------------|-------|-------|--------|----------------|----------|--------------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to 2 | 014 | 2012 to | 2013 |
| | | | | | (0 | lollar | s in millions) | | | |
| Cost of license revenue | \$ 268.4 | \$ | 268.9 | \$ | 232.8 | \$ | (0.5) | — % | \$ 36.1 | 16% |
| Cost of maintenance and service revenue | 87.2 | | 80.4 | | 78.6 | \$ | 6.8 | 8 % | \$ 1.8 | 2% |
| Amortization of intangible assets | 101.3 | | 104.3 | | 81.3 | \$ | (3.0) | (3)% | \$ 23.0 | 28% |
| Total | \$ 456.9 | \$ | 453.6 | \$ | 392.7 | \$ | 3.3 | 1 % | \$ 60.9 | 16% |
| Percentage of total revenue | 22% | | 23% | | 22% | | | | | |

We divide cost of revenue into three categories: cost of license revenue, cost of maintenance and service revenue, and amortization of intangible assets. We segregate expenses directly associated with consulting and training services from cost of license revenue associated with internal functions providing license delivery and post-customer contract support services. We then allocate these group costs between cost of license revenue and cost of maintenance and service revenue based on license and maintenance and service revenue reported.

Cost of license revenue. Cost of license revenue includes costs related to products sold and software licensed, allocated operating costs related to product support and distribution costs, royalties paid to third-party vendors, and the amortization of capitalized research and development costs associated with software products that have reached technological feasibility.

Cost of maintenance and service revenue. Cost of maintenance and service revenue includes operating costs related to maintaining the infrastructure necessary to operate our services and training organization, and costs

associated with the delivery of our consulting services, such as hotline and on-site support, production services and documentation of maintenance updates.

Amortization of intangible assets. Amortization of intangible assets, which is recorded to cost of revenue and operating expenses, includes the amortization of certain contract rights and the amortization of core/developed technology, trademarks, trade names, customer relationships, and covenants not to compete related to acquisitions.

Cost of revenue remained relatively flat in fiscal 2014 compared to fiscal 2013 as increases in personnel-related costs of \$20.4 million, driven by higher headcount and increases in consulting services, were partially offset by lower product costs of \$15.3 million, primarily due to purchase accounting adjustments that were recorded in fiscal 2013, and a decrease of \$3.0 million in amortization of intangible assets due to certain intangible assets being fully amortized.

Cost of revenue increased by \$60.9 million or 16% in fiscal 2013 compared to fiscal 2012 due to increases of \$23.0 million in amortization of intangible assets and \$17.7 million in personnel-related costs, primarily as a result of acquisitions in fiscal 2012, particularly in the fourth quarter of fiscal 2012, and \$25.9 million in product costs primarily due to product sales. The increase in cost of revenue was partially offset by an additional week of expenses of approximately \$2.2 million in fiscal 2012 and a \$1.3 million reduction in acquisition-related costs compared to fiscal 2012.

Changes in other cost of revenue categories for the above mentioned periods were not individually material.

Operating Expenses

Research and Development

| | Yea | ır End | ded Octobe | r 31, | | | \$ Change | % Change | \$ Change | % Change |
|-----------------------------|-------------|--------|------------|-------|-------|-------|-----------------|----------|--------------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to | 2014 | 2012 to | 2013 |
| | | | | | (| dolla | ars in millions | 5) | | |
| | \$ 718.8 | \$ | 669.2 | \$ | 581.6 | \$ | 49.6 | 7% | \$ 87.6 | 15% |
| Percentage of total revenue | 35% | | 34% | | 33% |) | | | | |

The increase in research and development expense in fiscal 2014 compared to fiscal 2013 was primarily due to an increase of \$36.5 million in personnel-related costs primarily as a result of headcount increases, including those from acquisitions, functionally allocated expenses that were higher by \$12.2 million, and a \$3.2 million increase in consultant and contractor costs.

The increase in research and development expense in fiscal 2013 compared to fiscal 2012 was primarily due to increases of \$76.1 million in personnel-related costs and \$11.0 million in functionally allocated expenses, as a result of headcount increases primarily from our acquisitions in fiscal 2012, particularly in the fourth quarter of fiscal 2012, and \$8.6 million in consulting costs. The increase in research and development expenses was partially offset by an additional week of expenses of approximately \$7.5 million in fiscal 2012 and a \$6.3 million reduction in acquisition-related costs compared to fiscal 2012.

Changes in other research and development expense categories for the above mentioned periods were not individually material.

Sales and Marketing

| | Yea | ar En | ded Octobe | er 31, | | \$ | Change | % Change | \$ (| Change | % Change |
|-----------------------------|-------------|-------|------------|--------|-------|-------|----------------|----------|------|---------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to | 2014 | | 2012 to | 2013 |
| | | | | | (| dolla | rs in millions | 5) | | | |
| | \$ 453.1 | \$ | 426.0 | \$ | 415.6 | \$ | 27.1 | 6% | \$ | 10.4 | 3% |
| Percentage of total revenue | 22% |) | 22% | | 24% |) | | | | | |

Changes in commissions and other variable compensation are generally attributable to the volume of contracts and timing of shipments based on contract requirements.

The increase in sales and marketing expense for fiscal 2014 compared with fiscal 2013 was primarily due to an increase of \$21.2 million in personnel-related costs as a result of headcount increases, including those from

acquisitions, an increase of \$4.0 million in variable compensation due to higher shipments and higher functionally allocated expenses of \$2.0 million.

The increase in sales and marketing expense for fiscal 2013 compared with fiscal 2012 was due to increases in personnel-related costs of \$15.9 million primarily driven by headcount increases, \$2.0 million in marketing activities, and \$1.4 million in maintenance. The increase in sales and marketing expenses was partially offset by an additional week of expenses of approximately \$4.9 million in fiscal 2012 and a \$5.2 million reduction in acquisition-related costs compared to fiscal 2012.

Changes in other sales and marketing expense categories for the above mentioned periods were not individually material.

General and Administrative

| | Yea | ar End | ded Octobe | er 31, | | \$ | Change | % Change | \$ Change | % Change |
|-----------------------------|-------------|--------|------------|--------|-------|-------|----------------|----------|--------------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to | 2014 | 2012 to | 2013 |
| | | | | | (0 | dolla | rs in millions | 5) | | |
| | \$ 155.2 | \$ | 143.8 | \$ | 157.5 | \$ | 11.4 | 8% | \$ (13.7) | (9)% |
| Percentage of total revenue | 8% | | 7% | | 9% | | | | | |

The increase in general and administrative expenses for fiscal 2014 compared with fiscal 2013 was primarily due to increases of \$10.4 million in facilities and depreciation expenses, \$9.8 million in professional service costs, \$2.4 million of acquisition-related costs, and \$1.2 million in personnel-related costs. The increases were partially offset by higher allocations of \$15.3 million in expenses to other functions compared to the same period in fiscal 2013, due to increased spending in allocated costs, resulting from increased headcount.

The decrease in general and administrative expenses for fiscal 2013 compared with fiscal 2012 was due to a decrease in acquisition-related costs of \$25.4 million compared to fiscal 2012 and higher allocation of \$7.7 million in expenses to other functions (cost of revenue, research and development, and sales and marketing) in fiscal 2013 as headcount growth in those functions, primarily driven by acquisitions, resulted in an increase in the pool of expenses to be allocated. The decrease in general and administrative expense was partially offset by increases of \$15.2 million in professional service costs, \$5.4 million in facilities and depreciation expenses, primarily due to our acquisitions, and \$2.2 million in personnel-related costs as a result of headcount increases primarily from our acquisitions.

Changes in other general and administrative expense categories for the above mentioned periods were not individually material.

Change in Fair Value of Deferred Compensation

The income or loss arising from the change in fair value of our non-qualified deferred compensation plan obligation is recorded in cost of sales and each functional operating expense, with the offsetting change in the fair value of the related assets recorded in other income (expense), net. These assets are classified as trading securities. There is no overall impact to our net income from the income or loss of our deferred compensation plan obligation and asset.

Acquired In-Process Research and Development

In-process research and development (IPR&D) costs relate to in-process technologies acquired in acquisitions. The value assigned to IPR&D is determined by considering the importance of each project to our overall development plan, estimating costs to develop the IPR&D into commercially viable products, estimating the resulting net cash flows from such projects when completed and discounting the net cash flows back to their present value. The utilized discount rate is our weighted average cost of capital, taking into account the inherent uncertainties in future revenue estimates and the profitability of such technology, the successful development of the IPR&D, its useful life and the uncertainty of technological advances, all of which are unknown at the time of determination.

Upon completion of development, the underlying intangible asset is amortized over its estimated useful life and recorded in cost of revenue. IPR&D projects acquired are anticipated to be completed over a period of one to three years from the date of the acquisition. See Note 4 of *Notes to Consolidated Financial Statements*.

Amortization of Intangible Assets

Amortization of intangible assets includes the amortization of contract rights and the amortization of core/ developed technology, trademarks, trade names, customer relationships, covenants not to compete, and in-process research and development related to acquisitions completed in prior years. Amortization expense is included in the consolidated statements of operations as follows:

| | Yea | r End | ded Octobe | r 31, | | \$ | Change | % Change | \$ Change | % Change |
|--------------------------------|-------------|-------|------------|-------|------|--------|-------------|----------|--------------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to | 2014 | 2012 to | 2013 |
| | | | | | (d | ollars | in millions |) | | |
| Included in cost of revenue | \$ 101.3 | \$ | 104.3 | \$ | 81.3 | \$ | (3.0) | (3)% | \$ 23.0 | 28% |
| Included in operating expenses | 24.8 | | 23.2 | | 18.6 | \$ | 1.6 | 7 % | \$ 4.6 | 25% |
| Total | \$ 126.1 | \$ | 127.5 | \$ | 99.9 | \$ | (1.4) | (1)% | \$ 27.6 | 28% |
| Percentage of total revenue | 6% | | 6% | | 6% | | | | | |

Amortization of capitalized software development costs is not presented in the above table and is included in cost of license revenue in the consolidated statements of operations.

Amortization of intangible assets was relatively flat for fiscal 2014 compared with fiscal 2013 as the full amortization of certain intangible assets was offset by additions of intangible assets in fiscal 2014.

The increase in amortization of intangible assets for fiscal 2013 compared with fiscal 2012 was primarily due to the amortization of intangible assets from acquisitions partially offset by certain intangible assets becoming fully amortized. See Note 4 of *Notes to Consolidated Financial Statements* for a schedule of future amortization amounts, which is incorporated by reference here.

Impairment of Intangible Assets. We did not record any impairment charges to our intangible assets during fiscal 2014, 2013, or 2012.

Other Income (Expense), Net

| | Year | r En | ded Octobe | r 31, | ı | \$ | \$ Change | % Change | \$ Change | % Change |
|---|------------|------|------------|-------|-------|------|-----------------|----------|--------------|----------|
| | 2014 | | 2013 | | 2012 | | 2013 to | 2014 | 2012 to | 2013 |
| | | | | | (d | olla | ers in millions |) | | |
| Interest income | \$ 1.3 | \$ | 1.9 | \$ | 1.6 | \$ | (0.6) | (32)% | \$ 0.3 | 19 % |
| Interest expense | (1.9) | | (1.7) | | (2.0) | | (0.2) | 12 % | 0.3 | (15)% |
| Gain (loss) on assets related to executive deferred compensation plan | 10.8 | | 18.5 | | 7.5 | | (7.7) | (42)% | 11.0 | 147 % |
| Foreign currency exchange gain (loss) | 1.2 | | 6.0 | | 1.7 | | (4.8) | (80)% | 4.3 | 253 % |
| Other, net | 12.0 | | 4.5 | | 2.3 | | 7.5 | 167 % | 2.2 | 96 % |
| Total | \$ 23.4 | \$ | 29.2 | \$ | 11.1 | \$ | (5.8) | (20)% | \$ 18.1 | 163 % |

The net decrease in other income (expense) in fiscal 2014 as compared to fiscal 2013 was primarily due to lower gains in the market value of our executive deferred compensation plan assets and decreased foreign currency exchange gains as a result of less movement in foreign currency exchange rates. The decreases were partially offset by a gain from the sale of a non-marketable equity investment in fiscal 2014 that was recorded in other, net.

The net increase in other income (expense) in fiscal 2013 as compared to fiscal 2012 was primarily due to an increase in market value of the assets related to our deferred compensation plan, and an increase in gains in our foreign currency contracts, partially offset by lower interest expense due to a decrease in principal payment on a term loan.

Income Taxes

Our effective tax rate for fiscal 2014 included tax benefits from a settlement with the Internal Revenue Service (IRS) of \$15.5 million (for fiscal years 2012 through 2013), from federal statute of limitations lapses of \$6.7 million, and a settlement with the Taiwan tax authorities of \$3.9 million (net tax benefit resulting from fiscal years 2009 and 2010 and application of settlements to other open fiscal years). Our effective tax rate for fiscal 2013 included tax benefits from the reinstatement of the U.S. federal research tax credit of approximately \$19.0 million, reversal of deferred taxes resulting from the merger of a foreign affiliate of \$6.8 million, and settlement with the IRS of certain issues related to fiscal 2012 of \$1.1 million. The reinstatement of the research tax credit resulted in an additional tax credit for ten months of fiscal 2012 as well as a full year credit for fiscal 2013, compared to only two months of credit in fiscal 2014 as a result of the expiration of the credit on December 31, 2013. Our effective tax rate for fiscal 2012 included tax benefits from settlements with the IRS of \$15.9 million (for fiscal years 2010 through 2011), with Taiwan tax authorities of \$14.7 million (net tax benefit resulting from fiscal 2008 settlement being applied to other open fiscal years), and with Hungarian tax authorities of \$6.3 million (for fiscal years 2006 through 2010). For further discussion of the provision for income taxes and settlements, see Note 11 of the *Notes to Consolidated Financial Statements*.

Liquidity and Capital Resources

Our sources of cash and cash equivalents are funds generated from our business operations and funds that may be drawn down under our credit facility. As of October 31, 2014, we held an aggregate of \$162.0 million in cash and cash equivalents in the United States and an aggregate of \$823.8 million in our foreign subsidiaries. Funds held in our foreign subsidiaries are generated from revenue outside North America. At present, such foreign funds are considered to be indefinitely reinvested in foreign countries to the extent of indefinitely reinvested foreign earnings. In the event funds from foreign operations are needed to fund cash needs in the United States and if U.S. taxes have not already been previously accrued, we would be required to accrue and pay additional U.S. taxes in order to repatriate these funds.

The following sections discuss changes in our balance sheet, cash flows, and other commitments on our liquidity and capital resources during fiscal 2014.

Cash and cash equivalents

| | Year Ended | Octo | ober 31, | | | |
|---------------------------|-------------|------|-------------|----------|--------|----------|
| | 2014 | | 2013 | \$ | Change | % Change |
| | | | (dollars ir | n millio | ons) | |
| Cash and cash equivalents | \$ 985.8 | \$ | 1,022.4 | \$ | (36.6) | (4)% |

Our cash decreased due to acquisitions, stock repurchases, and property and equipment spending during fiscal 2014, partially offset by the cash generated from our operations.

Cash flows

| | Ye | ar E | nded October 3 | 31, | | \$ Change | \$ Change |
|---|-------------|------|----------------|------|-------------------|--------------|--------------|
| | 2014 | | 2013 | | 2012 | 2013 to 2014 | 2012 to 2013 |
| | | | | (dol | lars in millions) | | |
| Cash provided by operating activities | \$ 551.0 | \$ | 496.7 | \$ | 486.1 | \$ 54.3 | \$ 10.6 |
| Cash (used in) investing activities | (497.3) | | (66.1) | | (879.1) | (431.2) | 813.0 |
| Cash provided by (used in) financing activities | (73.7) | | (98.0) | | 243.5 | 24.3 | (341.5) |

Cash provided by operating activities

We expect cash from our operating activities to fluctuate in future periods as a result of a number of factors, including the timing of our billings and collections, our operating results, the timing and amount of tax and other liability payments. Cash provided by our operations is dependent primarily upon the payment terms of our license agreements. We generally receive cash from upfront license revenue much sooner than from time-based license revenue, in which the license fee is typically paid either quarterly or annually over the term of the license.

Fiscal 2013 to fiscal 2014. The increase in cash provided by operating activities was primarily driven by higher cash collections, which were partially offset by higher disbursements for operations, including vendors.

Fiscal 2012 to fiscal 2013. Cash provided by operating activities increased slightly due to an increase in collections from customers and a decrease in tax payments, offset partly by higher disbursements to vendors and higher personnel-related costs due to increased headcount.

Cash used in investing activities

Fiscal 2013 to fiscal 2014. The increase in cash used in investing activities was primarily driven by cash paid for acquisitions and intangible assets, net of cash acquired, of \$394.6 million

Fiscal 2012 to fiscal 2013. The decrease in cash used in investing activities was primarily due to the decrease in acquisition activities in fiscal 2013.

Cash provided by (used in) financing activities

Fiscal 2013 to fiscal 2014. The decrease in cash used in financing activities was primarily due to the acquisition of a non-controlling interest in SpringSoft, Inc. for \$44.0 million in fiscal 2013 and a decrease of \$25.3 million in purchases of treasury stock, partially offset by a decrease of \$49.8 million in proceeds from issuances of common stock. We repaid our senior unsecured revolving credit facility balance of \$200.0 million in the third quarter of fiscal 2014, which had been drawn down during the second guarter of fiscal 2014.

Fiscal 2012 to fiscal 2013. The decrease in cash provided by financing activities was primarily due to increased common stock repurchases under our stock repurchase program, proceeds from credit facilities in fiscal 2012 that did not recur in the current period and less proceeds from issuances of common stock.

Accounts Receivable, net

| Year Ended | October 31, | | |
|-------------|-------------|----------------|----------|
| 2014 | 2013 | - \$ Change | % Change |
| (dollars in | millions) | | |
| \$326.7 | \$256.0 | \$70.7 | 28% |

Our accounts receivable and days sales outstanding (DSO) are primarily driven by our billing and collections activities. Our DSO was 55 days at October 31, 2014 and 46 days at October 31, 2013. The increase in DSO is attributable to the timing of billings at the end of fiscal 2014.

Working Capital. Working capital is comprised of current assets less current liabilities, as shown on our consolidated balance sheets:

| | Year Ended | Octo | ber 31, | | |
|---------------------|-----------------|--------|---------|---------------|----------|
| | 2014 | | 2013 | \$ Change | % Change |
| | (dollars in | n mill | ions) | | |
| Current assets | \$ 1,504.7 | \$ | 1,448.0 | \$ 56.7 | 4 % |
| Current liabilities | 1,386.8 | | 1,222.9 | \$ 163.9 | 13 % |
| Working capital | \$ 117.9 | \$ | 225.1 | \$ (107.2) | (48)% |

Working capital at the end of fiscal 2014 was lower than at the end of fiscal 2013 primarily due to (1) a \$100.7 million increase in deferred revenue due to timing of billings, (2) a \$36.7 million decrease in cash and cash equivalents, (3) a \$38.9 million increase in accounts payable and accrued liabilities primarily due to timing of purchases, and (4) a \$24.2 million increase in accrued income taxes. These changes in working capital were partially offset by a \$70.7 million increase in accounts receivable due to the timing of our billings at the end of fiscal 2014, a \$19.4 million increase in deferred taxes and an \$8.2 million increase in income taxes receivable and prepaid taxes.

Other

As of October 31, 2014, our cash equivalents consisted of cash deposits, tax-exempt money market mutual funds, and taxable money market mutual funds. We follow an established investment policy and set of guidelines to monitor, manage and limit our exposure to interest rate and credit risk.

We proactively manage our cash and cash equivalents balances and closely monitor our capital and stock repurchase expenditures to ensure ample liquidity. Our cash equivalents are classified within Level 1 under fair value guidance. See Notes 5 and 6 of the *Notes to Consolidated Financial Statements*.

We believe that our current cash and cash equivalents, cash generated from operations, and available credit under our Revolver (defined below) will satisfy our routine business requirements for at least the next twelve months and the foreseeable future.

Other Commitments

On February 17, 2012, we entered into an agreement with several lenders (the Credit Agreement) providing for (i) a \$350.0 million senior unsecured revolving credit facility (the Revolver) and (ii) a \$150.0 million senior unsecured term loan facility (the Term Loan). Principal payments on a portion of the Term Loan are due in equal quarterly installments of \$7.5 million, with the remainder due when the Credit Agreement expires in October 2016. We can elect to make prepayments on the Term Loan, in whole or in part, without premium or penalty. Subject to obtaining additional commitments from lenders, the principal amount of the loans provided under the Credit Agreement may be increased by us by up to an additional \$150.0 million through October 13, 2015. The Credit Agreement contains financial covenants requiring us to operate within a maximum leverage ratio and maintain specified levels of cash, as well as other non-financial covenants.

During the second quarter of fiscal 2014, we drew down \$200.0 million under the Revolver to finance a portion of the purchase price for the acquisition of Coverity on March 24, 2014 and during the third quarter of fiscal 2014, we repaid the \$200.0 million balance under the Revolver. As of October 31, 2014, we had a \$75.0 million outstanding balance under the Term Loan, of which \$45.0 million is classified as long-term and no outstanding balance under the Revolver. As of October 31, 2013 we had a \$105.0 million outstanding balance under the Term Loan, of which \$75.0 million is classified as long-term, and no outstanding balance under the Revolver. Borrowings bear interest at a floating rate based on a margin over our choice of market observable base rates as defined in the Credit Agreement. At October 31, 2014, borrowings under the Term Loan bore interest at LIBOR +1.125% and the applicable interest rate for the Revolver was LIBOR +0.975%. In addition, commitment fees are payable on the Revolver at rates between 0.150% and 0.300% per year based on our leverage ratio on the daily amount of the revolving commitment.

As a result of the Coverity acquisition, we assumed Coverity's credit facility with a U.S. bank that had an original expiration date of December 31, 2014. The facility provided a maximum borrowing limit of \$7.0 million. During the third quarter of fiscal 2014, we chose to terminate the Coverity credit facility prior to the original expiration date.

In December 2014, we drew down \$250.0 million under the Revolver, primarily to finance the 2015 ASR. See Part II, Item 5. *Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities—Stock Repurchase Program* for further detail on the 2015 ASR.

Contractual Obligations

The following table summarizes our contractual obligations as of October 31, 2014:

| | Total | F | iscal 2015 | | Fiscal 2016/ Fiscal 2017 | iscal 2018/ iscal 2019 | _1 | hereafter | Other |
|-----------------------------------|---------------|----|------------|-----|-----------------------------|---------------------------|----|-----------|--------------|
| | | | | (in | thousands) | | | | |
| Lease Obligations: | | | | | | | | | |
| Capital Lease | \$ 22 | \$ | 22 | \$ | _ | \$ _ | \$ | _ | \$ _ |
| Operating Leases(1) | \$ 372,914 | \$ | 40,549 | \$ | 76,705 | \$ 59,408 | \$ | 196,252 | \$ _ |
| Purchase Obligations(2) | 155,376 | | 151,968 | | 3,158 | 250 | | _ | _ |
| Term Loan(3) | 75,000 | | 30,000 | | 45,000 | _ | | _ | _ |
| Other Long-Term Obligations(4) | 1,583 | | 1,033 | | 550 | _ | | _ | _ |
| Long term accrued income taxes(5) | 50,952 | | _ | | _ | _ | | _ | \$ 50,952 |
| Total | \$ 655,847 | \$ | 223,572 | \$ | 125,413 | \$ 59,658 | \$ | 196,252 | \$ 50,952 |

- (1) See Note 7 of Notes to Consolidated Financial Statements.
- (2) Purchase obligations represent an estimate of all open purchase orders and contractual obligations in the ordinary course of business for which we have not received the goods or services as of October 31, 2014. Although open purchase orders are considered enforceable and legally binding, the terms generally allow us the option to cancel, reschedule and adjust our requirements based on our business needs prior to the delivery of goods or performance of services.
- (3) This commitment relates to the principal on the Term Loan as discussed in *Other Commitments* above.
- (4) These other obligations include a loan assumed through an acquisition and the fees associated with our Term Loan and Revolver.
- (5) Long-term accrued income taxes represent uncertain tax benefits as of October 31, 2014. Currently, a reasonably reliable estimate of timing of payments in individual years beyond fiscal 2014 cannot be made due to uncertainties in timing of the commencement and settlement of potential tax audits.

The expected timing of payments of the obligations discussed above is estimated based on current information. Timing of payment and actual amounts paid may be different depending on the time of receipt of goods or services or changes to agreed-upon amounts for some obligations.

Off-Balance Sheet Arrangements

As of October 31, 2014, we did not have any significant off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Our exposure to market risk for changes in interest rates relates to our cash and cash equivalents and outstanding debt. As of October 31, 2014, all of our cash, cash equivalents and debt were at short-term variable interest rates. While par value generally approximates fair value on variable instruments, rising interest rates over time would increase both our interest income and our interest expense.

The following tables present our cash equivalents and debt by fiscal year of expected maturity and average interest rates:

As of October 31, 2014

| | Maturing in Year Ending October 31, | | | | | | | | |
|---------------------------------|-------------------------------------|----|-------------------|-----|--------------|----|---------|----|------------|
| | 2015 | | 2016 | | 2017 | | Total | | Fair Value |
| | | | | (ir | n thousands) | | | | |
| Cash equivalent (variable rate) | \$ 792,970 | \$ | | \$ | _ | \$ | 792,970 | \$ | 792,970 |
| Average interest rate | 0.21% | | —% | | —% | | | | |
| Short-term debt (variable rate) | | | | | | | | | |
| Term Loan | \$ 30,000 | \$ | _ | \$ | _ | \$ | 30,000 | \$ | 30,000 |
| Average interest rate | LIBOR + 1.125% | | —% | | —% | | | | |
| Long-term debt (variable rate) | | | | | | | | | |
| Term Loan | \$ _ | \$ | 45,000 | \$ | _ | \$ | 45,000 | \$ | 45,000 |
| Average interest rate | —% | | LIBOR + 1.125% | | | | | | |

As of October 31, 2013

| | | Maturing | ı in ` | Year Ending Oc | tobe | er 31, | |
|---------------------------------|-------------------|-------------------|--------|-------------------|------|---------|---------------|
| | 2014 | 2015 | | 2016 | | Total | Fair Value |
| | | | (i | n thousands) | | | |
| Cash equivalent (variable rate) | \$ 839,149 | \$ _ | \$ | _ | \$ | 839,149 | \$ 839,149 |
| Average interest rate | 0.16% | —% | | —% | | | |
| Short-term debt (variable rate) | | | | | | | |
| Term Loan | \$ 30,000 | \$ _ | \$ | _ | \$ | 30,000 | \$ 30,000 |
| Average interest rate | LIBOR + 1.125% | —% | | —% | | | |
| Long-term debt (variable rate) | | | | | | | |
| Term Loan | \$ _ | \$ 30,000 | \$ | 45,000 | \$ | 75,000 | \$ 75,000 |
| Average interest rate | <u> </u> % | LIBOR + 1.125% | | LIBOR + 1.125% | | | |

Foreign Currency Risk. We operate internationally and are exposed to potentially adverse movements in currency exchange rates. The functional currency of the majority of our active foreign subsidiaries is the foreign subsidiary's local currency. We enter into hedges in the form of foreign currency forward contracts to reduce our exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions including: (1) certain assets and liabilities, (2) shipments forecasted to occur within approximately one month, (3) future billings and revenue on previously shipped orders, and (4) certain future intercompany invoices denominated in foreign currencies. The foreign currency contracts are carried at fair value and denominated in various currencies as listed in the tables below. The duration of forward contracts usually ranges from one month to 20 months. A description of our accounting for foreign currency contracts is included in Note 2 and Note 5 of Notes to Consolidated Financial Statements.

The success of our hedging activities depends upon the accuracy of our estimates of various balances and transactions denominated in non-functional currencies. To the extent our estimates are correct, gains and losses on our foreign currency contracts will be offset by corresponding losses and gains on the underlying transactions. For example, if the Euro were to depreciate by 10% compared to the U.S. dollar prior to the settlement of the Euro forward contracts listed in the table below providing information as of October 31, 2014, the fair value of the contracts would decrease by approximately \$11.8 million, and we would be required to pay approximately \$11.8 million to the counterparty upon contract maturity. At the same time, the U.S. dollar value of our Euro-based expenses would decline, resulting in a gain and positive cash flow of approximately \$11.8 million that would offset the loss and negative cash flow on the maturing forward contracts.

Net unrealized losses of approximately \$11.1 million and \$1.8 million, net of tax, are included in accumulated other comprehensive income (loss) in our consolidated balance sheets as of October 31, 2014 and 2013, respectively.

If estimates of our balances and transactions prove inaccurate, we will not be completely hedged, and we will record a gain or loss, depending upon the nature and extent of such inaccuracy.

We do not use foreign currency forward contracts for speculative or trading purposes. We enter into foreign exchange forward contracts with financial institutions and have not experienced nonperformance by counterparties. Further, we anticipate performance by all counterparties to such agreements. The following table provides information about the gross notional values of our foreign currency contracts as of October 31, 2014:

| | - | oss Notional Amount in J.S. Dollars | Average Contract Rate |
|--------------------------|-----|---|-----------------------------|
| | (in | thousands) | |
| Forward Contract Values: | | | |
| Japanese yen | \$ | 319,063 | 105.058 |
| Euro | | 117,547 | 0.749 |
| Chinese renminbi | | 88,557 | 6.195 |
| Taiwanese dollar | | 66,484 | 29.808 |
| Indian Rupee | | 62,118 | 65.072 |
| Canadian dollar | | 34,890 | 1.099 |
| Korean won | | 20,843 | 1,036.368 |
| British pound sterling | | 19,884 | 0.607 |
| Israeli shekel | | 18,481 | 3.578 |
| Armenian dram | | 15,968 | 394.548 |
| Swiss franc | | 8,600 | 0.908 |
| Swedish krona | | 7,337 | 7.204 |
| Singapore dollar | | 6,910 | 1.259 |
| Chilean peso | | 2,882 | 594.037 |
| Russian ruble | | 2,624 | 38.273 |
| Hungarian forint | | 1,749 | 243.531 |
| | \$ | 793,937 | |

The following table provides information about the gross notional values of our foreign currency contracts as of October 31, 2013:

| | | oss Notional Amount in I.S. Dollars | Average Contract Rate |
|--------------------------|-----|---|-----------------------------|
| | (in | thousands) | |
| Forward Contract Values: | | | |
| Japanese yen | \$ | 297,658 | 96.334 |
| Euro | | 92,351 | 0.754 |
| Taiwan dollar | | 84,458 | 29.341 |
| Indian rupee | | 70,030 | 62.213 |
| Chinese renminbi | | 68,208 | 6.246 |
| Canadian dollar | | 30,819 | 1.030 |
| British pound sterling | | 25,638 | 0.634 |
| Israeli shekel | | 18,615 | 3.555 |
| Armenian dram | | 16,442 | 395.147 |
| Korean won | | 15,818 | 1,116.702 |
| Swiss franc | | 8,443 | 0.925 |
| Swedish krona | | 6,440 | 6.416 |
| Singapore dollar | | 5,555 | 1.263 |
| Chilean peso | | 2,595 | 530.167 |
| Russian ruble | | 2,415 | 34.202 |
| Hungarian forint | | 1,316 | 212.740 |
| | \$ | 746,801 | |

Equity Risk. We have approximately \$10.9 million and \$11.5 million of non-marketable equity securities in privately held companies as of October 31, 2014 and 2013, respectively. These investments are accounted for under the cost or equity methods. The cost basis of securities sold is based on the specific identification method. The securities of privately held companies are reported at carrying value. Investments are written down to the fair value if there are any events or changes in circumstances that indicate any other than temporary decline in the value. During fiscal 2014 and 2013, we did not write down the value of our investment portfolio. None of our investments are held for speculation purposes.

Item 8. Financial Statements and Supplementary Data

Report of Independent Registered Public Accounting Firm

The Board of Directors and Stockholders Synopsys, Inc.:

We have audited the accompanying consolidated balance sheets of Synopsys, Inc. and subsidiaries (the Company) as of November 1, 2014 and November 2, 2013, and the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows for each of the years in the three-year period ended November 1, 2014. We also have audited Synopsys Inc.'s internal control over financial reporting as of November 1, 2014, based on criteria established in *Internal Control – Integrated Framework (1992)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these consolidated financial statements, 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 appearing under item 9A(b). Our responsibility is to express an opinion on these consolidated financial statements and an opinion on the Company's internal control over financial reporting 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 audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the consolidated financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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

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

As indicated in the accompanying Management's Report on Internal Control over Financial Reporting, Synopsys, Inc. has excluded from their evaluation the internal control over financial reporting of Coverity, Inc. (Coverity), which the Company acquired on March 24, 2014. This acquisition is discussed in note 3 of Notes to Consolidated Financial Statements. As of and for the year ended November 1, 2014, Coverity represented, in the aggregate, approximately 1% of consolidated total assets and consolidated total revenue, respectively.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Synopsys, Inc. and subsidiaries as of November 1, 2014 and November 2, 2013, and the results of their operations and their cash flows for each of the years in the three-year period ended November 1, 2014, in conformity with U.S. generally accepted accounting principles. Also in our opinion, Synopsys, Inc. maintained, in all material respects, effective internal control over financial reporting as of November 1, 2014, based on criteria established in *Internal Control – Integrated Framework (1992)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

/s/ KPMG LLP

Santa Clara, California December 12, 2014

CONSOLIDATED BALANCE SHEETS (In thousands, except par value amounts)

| ASSETS Current assets: Cash and cash equivalents \$ 985,762 \$ 1,02 | 22,441 |
|---|----------------|
| Current assets: | |
| | |
| Cash and cash equivalents \$ 985 762 \$ 1.03 | |
| | 6 006 |
| Accounts receivable, net of allowances of \$2,026 and \$4,253, respectively 326,727 25 | 6,026 |
| Deferred income taxes 111,449 | 2,058 |
| Income taxes receivable and prepaid taxes 26,496 | 8,277 |
| Prepaid and other current assets54,301 | 9,175 |
| Total current assets 1,504,735 1,44 | 7,977 |
| Property and equipment, net 249,098 19 | 7,600 |
| Goodwill 2,255,708 1,97 | 75,971 |
| Intangible assets, net 365,030 33 | 35,425 |
| Long-term prepaid taxes 17,645 | 7,935 |
| Long-term deferred income taxes 208,156 24 | 3,066 |
| Other long-term assets 175,127 15 | 0,961 |
| Total assets \$ 4,775,499 \$ 4,35 | 8,935 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | |
| Current liabilities: | |
| Accounts payable and accrued liabilities \$ 397,113 \$ 35 | 8,197 |
| Accrued income taxes 31,404 | 7,168 |
| Deferred revenue 928,242 82 | 27,554 |
| Short-term debt 30,000 | 80,000 |
| Total current liabilities 1,386,759 1,22 | 2,919 |
| Long-term accrued income taxes 50,952 | 3,064 |
| Long-term deferred revenue 77,646 | 4,736 |
| Long-term debt 45,000 | ' 5,000 |
| Other long-term liabilities 158,972 16 | 4,939 |
| Total liabilities 1,719,329 1,57 | 0,658 |
| Stockholders' equity: | |
| Preferred Stock, \$0.01 par value: 2,000 shares authorized; none outstanding — | _ |
| Common Stock, \$0.01 par value: 400,000 shares authorized; 155,965 and 154,169 shares outstanding, respectively 1,560 | 1,542 |
| Capital in excess of par value 1,614,603 1,59 | 7,244 |
| Retained earnings 1,551,592 1,32 | 24,854 |
| Treasury stock, at cost: 1,299 and 3,095 shares, respectively (49,496) | 6,668) |
| Accumulated other comprehensive income (loss) (62,089) | 28,695) |
| | 88,277 |
| Total liabilities and stockholders' equity \$ 4,775,499 \$ 4,35 | 8,935 |

CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except per share amounts)

| | | Ye | 31, | 1 , | | |
|---|----------|-----------|-----------------|------------|-----------|--|
| | | 2014 | 2013 | | 2012 | |
| Revenue: | | | | | | |
| Time-based license | \$ | 1,699,135 | \$ 1,599,464 | \$ | 1,449,300 | |
| Upfront license | | 135,757 | 132,018 | | 105,137 | |
| Maintenance and service | | 222,580 | 230,732 | | 201,580 | |
| Total revenue | | 2,057,472 | 1,962,214 | | 1,756,017 | |
| Cost of revenue: | | | | | | |
| License | | 268,348 | 268,910 | | 232,811 | |
| Maintenance and service | | 87,226 | 80,338 | | 78,607 | |
| Amortization of intangible assets | | 101,311 | 104,304 | | 81,255 | |
| Total cost of revenue | | 456,885 | 453,552 | | 392,673 | |
| Gross margin | | 1,600,587 | 1,508,662 | | 1,363,344 | |
| Operating expenses: | | | | | | |
| Research and development | | 718,768 | 669,197 | | 581,628 | |
| Sales and marketing | | 453,079 | 425,982 | | 415,629 | |
| General and administrative | | 155,215 | 143,791 | | 157,459 | |
| Amortization of intangible assets | | 24,808 | 23,199 | | 18,604 | |
| Total operating expenses | | 1,351,870 | 1,262,169 | | 1,173,320 | |
| Operating income | | 248,717 | 246,493 | | 190,024 | |
| Other income (expense), net | | 23,425 | 29,173 | | 11,111 | |
| Income before provision for income taxes | | 272,142 | 275,666 | | 201,135 | |
| Provision (benefit) for income taxes | | 13,018 | 27,866 | | 18,733 | |
| Net income | \$ | 259,124 | \$ 247,800 | \$ | 182,402 | |
| Net income per share: | | | | | | |
| Basic | \$ | 1.67 | \$ 1.62 | \$ | 1.24 | |
| Diluted | \$ \$ | 1.64 | \$ 1.58 | \$ | 1.21 | |
| Shares used in computing per share amounts: | | | | | | |
| Basic | | 155,054 | 153,319 | | 146,887 | |
| Diluted | | 157,710 | 156,601 | | 150,280 | |

SYNOPSYS, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (In thousands)

| | Year Ended October 31, | | | | | |
|---|------------------------|----------|----|----------|----|---------|
| | | 2014 | | 2013 | | 2012 |
| Net income | \$ | 259,124 | \$ | 247,800 | \$ | 182,402 |
| Other comprehensive income (loss): | | | | | | |
| Change in foreign currency translation adjustment | | (24,093) | | (12,726) | | (5,805) |
| Cash flow hedges: | | | | | | |
| Deferred gains (losses), net of tax of \$(3,108), \$2,999, and \$1,101 for fiscal years 2014, 2013 and 2012, respectively | | (5,419) | | 6,057 | | (2,731) |
| Reclassification adjustment on deferred (gains) losses included in net income, net of tax of \$(125), \$(540), and \$(4,174) for fiscal years 2014, 2013 and 2012, respectively | | (3,882) | | (6,565) | | 14,235 |
| Change in unrealized gains (losses) on investments, net of tax of \$58, for fiscal 2012. | | _ | | _ | | (215) |
| Other comprehensive income (loss), net of tax effects | | (33,394) | | (13,234) | | 5,484 |
| Comprehensive income | \$ | 225,730 | \$ | 234,566 | \$ | 187,886 |

SYNOPSYS, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (In thousands)

| | Commo | n Stock | Capital in Excess of Par | Retained Treasury | | Accumulated Other Comprehensive | Total Synopsys Stockholders' | Non- controlling | Total |
|---|-----------------|----------|--------------------------------|---------------------|---------------------|---------------------------------------|------------------------------------|---------------------|--------------|
| | Shares | Amount | Value | Earnings | Stock | Income (Loss) | Equity | Interest | Equity |
| Balance at October 31, 2011 | 143,308 | \$ 1,433 | \$ 1,521,327 | \$ 957,517 | \$ (358,032) | \$ (20,945) | \$ 2,101,300 | \$ — | \$ 2,101,300 |
| Net income | | | | 182,402 | | | 182,402 | (504) | 181,898 |
| Other comprehensive income (loss), net of tax effects | | | | | | 5,484 | 5,484 | | 5,484 |
| Purchases of treasury stock | (2,474) | (25 |) 33,360 | | (73,335) | | (40,000) | | (40,000) |
| Common stock issued | 10,065 | 101 | (40,990) | (41,225) | 263,277 | | 181,163 | | 181,163 |
| Stock compensation expense | | | 71,337 | | | | 71,337 | | 71,337 |
| Non-controlling interest in an acquired company | | | | | | | | 42,789 | 42,789 |
| Balance at October 31, 2012 | 150,899 | \$ 1,509 | \$ 1,585,034 | \$ 1,098,694 | \$ (168,090) | \$ (15,461) | \$ 2,501,686 | \$ 42,285 | \$ 2,543,971 |
| Net income | | | | 247,800 | | | 247,800 | | 247,800 |
| Other comprehensive income (loss), net of tax effects | | | | | | (13,234) | (13,234) | | (13,234) |
| Purchases of treasury stock | (3,996) | (40 |) 40 | | (145,016) | | (145,016) | | (145,016) |
| Common stock issued | 7,266 | 73 | (55,312) | (21,640) | 206,438 | | 129,559 | | 129,559 |
| Stock compensation expense | | | 67,482 | | | | 67,482 | | 67,482 |
| Acquisition of non-controlling interest | | | | | | | | (42,285) | (42,285) |
| Balance at October 31, 2013 | <u> 154,169</u> | \$ 1,542 | <u>\$ 1.597.244</u> | <u>\$ 1,324,854</u> | <u>\$ (106.668)</u> | <u>\$ (28.695)</u> | \$ 2,788,277 | <u>\$</u> | \$ 2,788,277 |
| | | | | | | | | | |
| Net income | | | | 259,124 | | | 259,124 | | 259,124 |
| Other comprehensive income (loss), net of tax effects | | | | | | (33,394) | (33,394) | | (33,394) |
| Purchases of treasury stock | (3,092) | (31 |) 31 | | (119,747) | | (119,747) | | (119,747) |
| Common stock issued | 4,888 | 49 | (62,112) | (32,386) | 176,919 | | 82,470 | | 82,470 |
| Stock compensation expense | | | 79,440 | | | | 79,440 | | 79,440 |
| Balance at October 31, 2014 | 155,965 | \$ 1,560 | \$ 1,614,603 | \$ 1,551,592 | \$ (49,496) | \$ (62,089) | \$ 3,056,170 | <u>\$</u> | \$ 3,056,170 |

SYNOPSYS, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)

| | Ye | | | | |
|--|---------------|----|-----------|----|-----------|
| | 2014 | | 2013 | | 2012 |
| Cash flow from operating activities: | | | | | |
| Net income | \$ 259,124 | \$ | 247,800 | \$ | 182,402 |
| Adjustments to reconcile net income to net cash provided by operating activities: | | | | | |
| Amortization and depreciation | 192,826 | | 187,404 | | 156,840 |
| Stock compensation | 79,440 | | 67,511 | | 71,414 |
| Allowance for doubtful accounts | (1,250) | | 102 | | 3,754 |
| Write-down of long-term investments | _ | | _ | | 452 |
| (Gain) loss on sale of investments | (6,999) | | (868) | | (650) |
| Deferred income taxes | (17,100) | | (676) | | 12,850 |
| Net changes in operating assets and liabilities, net of acquired assets and liabilities: | | | | | |
| Accounts receivable | (65,018) | | 37,590 | | (53,395) |
| Prepaid and other current assets | 1,836 | | (12,063) | | 15,199 |
| Other long-term assets | (23,270) | | (27,468) | | (10,231) |
| Accounts payable and accrued liabilities | 40,645 | | (1,135) | | 42,960 |
| Income taxes | (9,095) | | (2,306) | | (43,113) |
| Deferred revenue | 99,814 | _ | 814 | | 107,586 |
| Net cash provided by operating activities | 550,953 | | 496,705 | | 486,068 |
| Cash flows from investing activities: | | | | | |
| Proceeds from sales and maturities of short-term investments | _ | | _ | | 166,132 |
| Purchases of short-term investments | | | _ | | (18,179) |
| Proceeds from sales of long-term investments | 7,774 | | 989 | | 506 |
| Proceeds from sale of property and equipment | | | 2,000 | | |
| Purchases of property and equipment | (103,275) | | (65,459) | | (54,191) |
| Cash paid for acquisitions and intangible assets, net of cash acquired | (394,623) | | _ | | (970,089) |
| Capitalization of software development costs | (3,638) | | (3,609) | | (3,302) |
| Other | (3,488) | _ | | | |
| Net cash used in investing activities | (497,250) | | (66,079) | | (879,123) |
| Cash flows from financing activities: | | | | | |
| Acquisition of non-controlling interests | _ | | (44,004) | | _ |
| Proceeds from credit facility and term loan | 200,000 | | _ | | 250,000 |
| Repayment of debt | (230,968) | | (30,712) | | (136,156) |
| Issuances of common stock | 82,083 | | 131,914 | | 175,896 |
| Purchases of treasury stock | (119,747) | | (145,016) | | (40,000) |
| Other | (5,057) | | (10,167) | | (6,252) |
| Net cash provided by (used in) financing activities | (73,689) | | (97,985) | | 243,488 |
| Effect of exchange rate changes on cash and cash equivalents | (16,693) | | (10,582) | | (5,128) |
| Net change in cash and cash equivalents | (36,679) | | 322,059 | | (154,695) |
| Cash and cash equivalents, beginning of year | 1,022,441 | | 700,382 | | 855,077 |
| Cash and cash equivalents, end of year | \$ 985,762 | \$ | 1,022,441 | \$ | 700,382 |
| Supplemental Disclosure of Cash Flow Information: | | | | | |
| Cash paid for income taxes during the year: | \$ 40,741 | \$ | 31,326 | \$ | 49,208 |
| Interest payments during the year: | \$ 1,904 | \$ | 1,761 | \$ | 1,961 |

SYNOPSYS, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1. Description of Business

Synopsys, Inc. (Synopsys or the Company) is a global leader in providing software, intellectual property and services used to design integrated circuits and electronic systems. The Company supplies the electronic design automation (EDA) software that engineers use to design, create prototypes for and test integrated circuits, also known as chips. The Company also offers intellectual property (IP) products, which are pre-designed circuits that engineers use as components of larger chip designs rather than designing those circuits themselves. The Company provides software and hardware used to develop the electronic systems that incorporate chips and the software that runs on them. To complement these product offerings, the Company provides technical services to support these solutions and help its customers develop chips and electronic systems. The Company is also a leading provider of software tools that developers use to improve the quality, security, and time-to-market of software code in a wide variety of industries, including electronics, financial services, energy, and industrials.

Note 2. Summary of Significant Accounting Policies

Fiscal Year End. The Company's fiscal year generally ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, the Company has a 53-week year. Fiscal 2014 and 2013 were 52-week years ending on November 1, 2014 and November 2, 2013, respectively. Fiscal 2012 was a 53-week year ending on November 3, 2012. For presentation purposes, the consolidated financial statements and accompanying notes refer to the closest calendar month end.

Principles of Consolidation. The consolidated financial statements include the accounts of the Company and all of its subsidiaries. All significant intercompany accounts and transactions have been eliminated.

Use of Estimates. To prepare financial statements in conformity with U.S. generally accepted accounting principles (U.S. GAAP), management must make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results could differ from these estimates and may result in material effects on the Company's operating results and financial position.

Foreign Currency Translation. The functional currency of the majority of the Company's active foreign subsidiaries is the foreign subsidiary's local currency. Assets and liabilities that are not denominated in the functional currency are remeasured into the functional currency with any related gain or loss recorded in earnings. The Company translates assets and liabilities of its non-U.S. dollar functional currency foreign operations into the U.S. dollar reporting currency at exchange rates in effect at the balance sheet date. The Company translates income and expense items of such foreign operations into U.S. dollars reporting currency at average exchange rates for the period. Accumulated translation adjustments are reported in stockholders' equity, as a component of accumulated other comprehensive income (loss).

Foreign Currency Contracts. The Company operates internationally and is exposed to potentially adverse movements in currency exchange rates. The Company enters into hedges in the form of foreign currency forward contracts to reduce its exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions. The assets or liabilities associated with the forward contracts are recorded at fair value in other current assets or accrued liabilities in the consolidated balance sheet.

The accounting for gains and losses resulting from changes in fair value depends on the use of the foreign currency forward contract and whether it is designated and qualifies for hedge accounting. See *Note 5. Financial Assets and Liabilities*.

Fair Values of Financial Instruments. The Company's cash equivalents and foreign currency contracts are carried at fair value. The fair value of the Company's accounts receivable and accounts payable approximates the carrying amount due to their short duration. Non-marketable equity securities are carried at cost, net of impairments. The Company performs periodic impairment analysis over these non-marketable equity securities. See Note 6. Fair Value Measures.

Cash and Cash Equivalents. The Company classifies investments with original maturities of three months or less when acquired as cash equivalents.

Concentration of Credit Risk. Financial instruments that potentially subject the Company to significant concentrations of credit risk consist principally of cash equivalents, marketable securities, foreign currency contracts, and accounts receivable from trade customers. The Company maintains cash equivalents primarily in highly rated taxable and tax-exempt money market funds located in the U.S. and in various overseas locations.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

The Company sells its products worldwide primarily to customers in the global electronics market. The Company performs on-going credit evaluations of its customers' financial condition and does not require collateral. The Company establishes reserves for potential credit losses and such losses have been within management's expectations and have not been material in any year presented.

Allowance for Doubtful Accounts. Trade accounts receivable are recorded at the invoiced amount and do not bear interest. The Company maintains allowances for doubtful accounts to reduce the Company's receivables to their estimated net realizable value. The Company provides a general reserve on all accounts receivable based on a review of customer accounts. The following table presents the changes in the allowance for doubtful accounts.

| Fiscal Year | Balance at Beginning of Period Provisions Write-offs(1) | | | | | Balance at End of Period | |
|-------------|---|-------|----|----------|------|--------------------------------|-------------|
| | | | | (in thou | sand | ds) | |
| 2014 | \$ | 4,253 | \$ | (1,250) | \$ | (977) | \$ 2,026 |
| 2013 | \$ | 6,072 | \$ | 102 | \$ | (1,921) | \$ 4,253 |
| 2012 | \$ | 2,489 | \$ | 3,754 | \$ | (171) | \$ 6,072 |

(1) Balances written off, net of recoveries.

Income Taxes. The Company accounts for income taxes using the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

The Company accounts for uncertainty in income taxes using a two-step approach to recognizing and measuring uncertain tax positions. The first step is to evaluate the tax position for recognition by determining whether it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount which is more than 50% likely of being realized upon ultimate settlement. An uncertain tax position is considered effectively settled on completion of an examination by a taxing authority if certain other conditions are satisfied.

Property and Equipment. Property and equipment is recorded at cost less accumulated depreciation. Assets, excluding land, are depreciated using the straight-line method over their estimated useful lives. Leasehold improvements are amortized using the straight-line method over the remaining term of the lease or the economic useful life of the asset, whichever is shorter. Depreciation expenses were \$63.1 million, \$56.7 million and \$52.8 million in fiscal 2014, 2013 and 2012, respectively. Repair and maintenance costs are expensed as incurred and such costs were \$28.7 million, \$26.3 million and \$23.7 million in fiscal 2014, 2013 and 2012, respectively.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

A summary of property and equipment, at cost less accumulated depreciation and amortization, as of October 31, 2014 and 2013 is as follows:

| | October 31, | | | |
|---|---------------|-------|-----------|--|
| | 2014 | | 2013 | |
| | (in tho | ısand | s) | |
| Computer and other equipment | \$ 419,951 | \$ | 372,295 | |
| Buildings | 68,871 | | 69,352 | |
| Furniture and fixtures | 41,089 | | 31,317 | |
| Land | 20,414 | | 20,414 | |
| Leasehold improvements | 136,513 | | 96,334 | |
| | 686,838 | | 589,712 | |
| Less accumulated depreciation and amortization(1) | (437,740) | | (392,112) | |
| Total | \$ 249,098 | \$ | 197,600 | |

 Accumulated depreciation and amortization includes write-offs due to retirement of fully amortized fixed assets.

The useful lives of depreciable assets are as follows:

| | Useful Life in Years |
|----------------------------------|----------------------|
| Computer and other equipment | 3-5 |
| Buildings | 30 |
| Furniture and fixtures | 5 |
| Leasehold improvements (average) | 5 |

Goodwill. Goodwill represents the excess of the aggregate purchase price over the fair value of the net tangible and identifiable intangible assets acquired by the Company. The carrying amount of goodwill is tested for impairment annually or more frequently if facts and circumstances warrant a review. The Company determined that it is a single reporting unit for the purpose of goodwill impairment tests. For purposes of assessing the impairment of goodwill, the Company estimates the value of the reporting unit using its market capitalization as the best evidence of fair value. This fair value is then compared to the carrying value of the reporting unit. During fiscal 2014, 2013 and 2012, there were no indicators of impairment to goodwill.

Intangible Assets. Intangible assets consist of acquired technology, certain contract rights, customer relationships, trademarks and trade names, covenants not to compete, capitalized software, and in-process research and development. These intangible assets are acquired through business combinations, direct purchases and internally developed capitalized software. Intangible assets are amortized on a straight-line basis over their estimated useful lives which range from two to ten years.

The Company continually monitors events and changes in circumstances that could indicate carrying amounts of the long-lived assets, including property and equipment and intangible assets, may not be recoverable. When such events or changes in circumstances occur, the Company assesses the recoverability of long-lived assets by determining whether the carrying value of such assets will be recovered through the undiscounted future cash flow. If the undiscounted future cash flow is less than the carrying amount of these assets, the Company recognizes an impairment loss based on the excess of the carrying amount over the fair value of the assets. The Company had no impairments of any long-lived assets in fiscal 2014, 2013 or 2012.

SYNOPSYS, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

Accounts Payable and Accrued Liabilities. The balance consists of:

| | October 31, | | | |
|------------------------------|-------------|----------|-------|---------|
| | 2014 | | | 2013 |
| | | (in thou | ısand | s) |
| Payroll and related benefits | \$ | 302,295 | \$ | 302,374 |
| Other accrued liabilities | | 66,666 | | 47,248 |
| Accounts payable | | 28,152 | | 8,575 |
| Total | \$ | 397,113 | \$ | 358,197 |

Other Long-term Liabilities. The balance consists of:

| | October 31, | | | |
|---|-------------|----------|-------|---------|
| | 2014 | | | 2013 |
| | | (in thou | ısand | s) |
| Deferred compensation liability (See Note 10) | \$ | 145,508 | \$ | 126,621 |
| Other long-term liabilities | | 13,464 | | 38,318 |
| Total | \$ | 158,972 | \$ | 164,939 |

Other Comprehensive Income (Loss). Other comprehensive income (loss) (OCI) includes all changes in equity during a period, such as accumulated net translation adjustments, unrealized gain (loss) on certain foreign currency forward contracts that qualify as cash flow hedges, reclassification adjustments related to cash flow hedges and unrealized gain (loss) on investments. See *Note 8. Accumulated Other Comprehensive Income (Loss)*.

Revenue Recognition. The Company derives revenue primarily from its software license arrangements. Software license revenue consists of fees associated with the licensing of the Company's software. Maintenance and service revenue consists of maintenance fees associated with perpetual and term licenses and professional services fees. Hardware revenue consists of Field Programmable Gate Array (FPGA)-based emulation and prototyping systems.

With respect to software licenses, the Company utilizes three license types:

- Technology Subscription Licenses (TSLs). TSLs are time-based licenses for a finite term, and
 generally provide the customer limited rights to receive, or to exchange certain quantities of licensed
 software for, unspecified future technology. The Company bundles and does not charge separately for
 post-contract customer support (maintenance) for the term of the license.
- Term licenses. Term licenses are also for a finite term, but do not provide the customer any rights to
 receive, or to exchange licensed software for, unspecified future technology. Customers purchase
 maintenance separately for the first year and may renew annually for the balance of the term. The
 annual maintenance fee is typically calculated as a percentage of the net license fee.
- Perpetual licenses. Perpetual licenses continue as long as the customer renews maintenance plus an additional 20 years. Perpetual licenses do not provide the customer any rights to receive, or to exchange licensed software for, unspecified future technology. Customers purchase maintenance separately for the first year and may renew annually.

For the three software license types, the Company recognizes revenue as follows:

- TSLs. The Company typically recognizes revenue from TSL fees (which include bundled maintenance) ratably over the term of the license period, or as customer installments become due and payable, whichever is later. Revenue attributable to TSLs is reported as "time-based license revenue" in the consolidated statements of operations.
- Term licenses. The Company recognizes revenue from term licenses in full upon shipment of the software if payment terms require the customer to pay at least 75% of the license fee and 100% of the maintenance fee within one year from shipment and all other revenue recognition criteria are met. Revenue attributable to these term licenses is reported as "upfront license revenue" in the consolidated statements of operations. For term licenses in which less than 75% of the license fee and 100% of the maintenance fee is payable within one year from shipment, the Company recognizes

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

- revenue as customer payments become due and payable. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations.
- Perpetual licenses. The Company recognizes revenue from perpetual licenses in full upon shipment of the software if payment terms require the customer to pay at least 75% of the license fee and 100% of the maintenance fee within one year from shipment and all other revenue recognition criteria are met. Revenue attributable to these perpetual licenses is reported as "upfront license revenue" in the consolidated statements of operations. For perpetual licenses in which less than 75% of the license fee and 100% of the maintenance fee is payable within one year from shipment, the Company recognizes revenue as customer installments become due and payable. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations.

The Company's maintenance and service revenue consists of maintenance fees associated with perpetual and term software licenses and professional services fees. The Company recognizes revenue from maintenance arrangements ratably over the maintenance period to the extent cash has been received or fees become due and payable, and recognize revenue from professional services and training fees as such services are performed and accepted by the customer. Revenue attributable to maintenance, professional services and training is reported as "maintenance and service revenue" in the consolidated statements of operations.

Hardware revenue consists of FPGA-based emulation and prototyping products. The Company recognizes revenue from sales of hardware products in full upon shipment if all other revenue recognition criteria are met. Revenue attributable to these sales is reported as "upfront license revenue" in the consolidated statements of operations and is not material to the Company's total revenue.

The Company also enters into arrangements in which portions of revenue are contingent upon the occurrence of uncertain future events, for example, royalty arrangements. The Company refers to this revenue as "contingent revenue." Contingent revenue is recognized if and when the applicable event occurs. Such revenue is reported as "time-based license revenue" in the consolidated statements of operations. Historically, these arrangements have not been material to the Company's total revenue.

The Company infrequently enters into multiple-element arrangements that contain both software and non-software deliverables such as hardware. The Company has determined that the software and non-software deliverables in the Company's contracts are separate units of accounting. The Company recognizes revenue for the separate units of accounting when all revenue recognition criteria are met. Revenue allocated to hardware units of accounting is recognized upon shipment when all other revenue recognition criteria are met. Revenue allocated to software units of accounting is recognized according to the methods described above depending on the software license type (TSL, term license or perpetual license). Such arrangements have not had a material effect on the Company's consolidated financial statements and are not expected to have a material effect in future periods.

The Company also enters into arrangements to deliver software products, either alone or together with other products or services that require significant modification, or customization of the software. The Company accounts for such arrangements using the percentage of completion method as the Company has the ability to make reasonably dependable estimates that relate to the extent of progress toward completion, contract revenues and costs. The Company measures the progress towards completion using the labor hours incurred to complete the project. Revenue attributable to these arrangements is reported as "maintenance and service revenue" in the consolidated statements of operations.

The Company determines the fair value of each element in multiple element software arrangements that contain only software and software related deliverables based on vendor-specific objective evidence (VSOE). The Company limits assessment of VSOE of fair value for each element to the price charged when such element is sold separately. The Company has analyzed all of the elements included in multiple-element software arrangements and has determined that the Company has sufficient VSOE to allocate revenue to the maintenance components of the Company's perpetual and term license products and to professional services. Accordingly, assuming all other revenue recognition criteria are met, the Company recognizes license revenue from perpetual and term licenses upon delivery using the residual method, recognizes revenue from maintenance ratably over the maintenance term, and recognizes revenue from professional services as services are performed and accepted by the customer. The Company recognizes revenue from TSLs ratably over the term of the license, assuming all other revenue recognition criteria are met, since there is not sufficient VSOE to allocate the TSL fee between license and maintenance services.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

The Company makes significant judgments related to revenue recognition. Specifically, in connection with each transaction involving the Company's products, the Company must evaluate whether: (1) persuasive evidence of an arrangement exists, (2) delivery of software or services has occurred, (3) the fee for such software or services is fixed or determinable, and (4) collectability of the full license or service fee is probable. All four of these criteria must be met in order for the Company to recognize revenue with respect to a particular arrangement. The Company applies these revenue recognition criteria as follows:

- Persuasive Evidence of an Arrangement Exists. Prior to recognizing revenue on an arrangement, the Company's customary policy is to have a written contract, signed by both the customer and by the Company or a purchase order from those customers that have previously negotiated a standard enduser license arrangement or purchase agreement.
- Delivery Has Occurred. The Company delivers its products to its customers electronically or
 physically. For electronic deliveries, delivery occurs when the Company provides access to its
 customers to take immediate possession of the software through downloading it to the customer's
 hardware. For physical deliveries, the standard transfer terms are typically Freight on Board (FOB)
 shipping point. The Company generally ships its products or license keys promptly after acceptance of
 customer orders. However, a number of factors can affect the timing of product shipments and, as a
 result, timing of revenue recognition, including the delivery dates requested by customers and its
 operational capacity to fulfill product orders at the end of a fiscal quarter.
- The Fee is Fixed or Determinable. The Company's determination that an arrangement fee is fixed or determinable depends principally on the arrangement's payment terms. The Company's standard payment terms for perpetual and term licenses require 75% or more of the license fee and 100% of the maintenance fee to be paid within one year. If the arrangement includes these terms, the Company regards the fee as fixed or determinable, and recognizes all license revenue under the arrangement in full upon delivery (assuming all other revenue recognition criteria are met). If the arrangement does not include these terms, the Company does not consider the fee to be fixed or determinable and generally recognizes revenue when customer installments are due and payable. In the case of a TSL, because of the right to exchange products or receive unspecified future technology and because VSOE for maintenance services does not exist for a TSL, the Company recognizes revenue ratably over the term of the license, but not in advance of when customers' installments become due and payable.
- Collectability is Probable. The Company judges collectability of the arrangement fees on a customer-by-customer basis pursuant to its credit review policy. The Company typically sells to customers with whom it has a history of successful collection. For a new customer, or when an existing customer substantially expands its commitments, the Company evaluates the customer's financial position and ability to pay and typically assigns a credit limit based on that review. The Company increases the credit limit only after it has established a successful collection history with the customer. If the Company determines at any time that collectability is not probable under a particular arrangement based upon its credit review process or the customer's payment history, the Company recognizes revenue under that arrangement as customer payments are actually received.

Warranties and Indemnities. The Company generally warrants its products to be free from defects in media and to substantially conform to material specifications for a period of 90 days for software products and for up to six months for HAPS FPGA-based prototyping systems. In certain cases, the Company also provides its customers with limited indemnification with respect to claims that their use of the Company's software products infringe on United States patents, copyrights, trademarks or trade secrets. The Company is unable to estimate the potential impact of these commitments on the future results of operations. To date, the Company has not been required to pay any material warranty claims.

Net Income Per Share. The Company computes basic income per share by dividing net income available to common shareholders by the weighted average number of common shares outstanding during the period. Diluted net income per share reflects the dilution from potential common shares outstanding such as stock options and unvested restricted stock units and awards during the period using the treasury stock method.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

The table below reconciles the weighted average common shares used to calculate basic net income per share with the weighted average common shares used to calculate diluted net income per share:

| | Year Ended October 31, | | | | | | |
|--|------------------------|---------|------|--------------|----|---------|--|
| | 2014 | | 2013 | | | 2012 | |
| | | | (ir | n thousands) | | | |
| Numerator: | | | | | | | |
| Net income | \$ | 259,124 | \$ | 247,800 | \$ | 182,402 | |
| Denominator: | | | | | | | |
| Weighted average common shares for basic net income per share | | 155,054 | | 153,319 | | 146,887 | |
| Dilutive effect of common share equivalents from equity—based compensation | | 2,656 | | 3,282 | | 3,393 | |
| Weighted average common shares for diluted net income per share | | 157,710 | | 156,601 | | 150,280 | |
| Net income per share: | | | | | | | |
| Basic | \$ | 1.67 | \$ | 1.62 | \$ | 1.24 | |
| Diluted | \$ | 1.64 | \$ | 1.58 | \$ | 1.21 | |
| Anti-dilutive employee stock-based awards excluded(1) | | 2,196 | | 1,326 | | 3,314 | |

⁽¹⁾ These stock options and unvested restricted stock units were anti-dilutive for the respective periods and are excluded in calculating diluted net income per share. While such awards were anti-dilutive for the respective periods, they could be dilutive in the future.

Note 3. Business Combinations and Acquisition of Non-controlling Interest

Fiscal 2014 Acquisitions

During fiscal 2014, the Company made four acquisitions that were accounted for as business combinations. The Company does not consider these acquisitions to be material, individually or in the aggregate, to the Company's balance sheet and results of operations. The consolidated financial statements include the operating results of each acquired business from the respective date of acquisition.

Acquisition of Coverity, Inc. (Coverity)

On March 24, 2014, the Company acquired Coverity, the leading provider of software quality, testing and security tools, for \$375.5 million in cash, payable to holders of Coverity capital stock and vested stock options. Additionally, the Company assumed outstanding unvested Coverity stock options. The Company believes this acquisition has enabled it to enter into a new, growing market dedicated to helping companies deliver better software faster, by finding software code defects as the code is being developed rather than at the end of the process. Coverity's customer base includes the Company's semiconductor and systems customers, albeit different users and budgets, and extends well beyond to software developers such as independent software vendors and companies engaged in e-commerce.

The total purchase consideration and the preliminary purchase price allocation were as follows:

| | (in | thousands) |
|--|-----|------------|
| Total cash consideration | \$ | 375,500 |
| | | |
| Goodwill | \$ | 266,423 |
| Identifiable intangibles assets acquired | | 101,900 |
| Other tangible assets acquired, net | | 28,447 |
| Deferred revenue | | (21,270) |
| Total purchase price allocation | \$ | 375,500 |

As of the end of fiscal 2014, the Company's preliminary purchase price allocation has not been finalized. The acquired gross deferred revenue amount of \$68.5 million was recorded at fair value of \$21.3 million as required by accounting rules. Goodwill of \$266.4 million, which is not deductible for tax purposes, primarily resulted from the Company's assembled workforce and expectation of sales growth due to its entrance into a new market and its new technology offerings. Acquired identifiable intangible assets of \$101.9 million, consisting of technology, customer relationships, in-process R&D, backlog and trademarks, were valued using the income method, and are being amortized over two to eight years. The fair value of stock options assumed was approximately \$15.0 million using the Black-Scholes option-pricing model and is expensed over their remaining service periods on a straight-line basis.

Other Fiscal 2014 Acquisitions

During fiscal 2014, the Company acquired three other companies for cash and preliminarily allocated the total purchase consideration of \$40.2 million to the assets acquired and liabilities assumed based on their respective fair values at the acquisition dates, resulting in total goodwill of \$24.0 million, which is not deductible for tax purposes. Acquired identifiable intangible assets totaling \$22.3 million were valued using the income or cost methods and are being amortized over their respective useful lives ranging from two to eight years.

The preliminary fair value estimates for the assets acquired and liabilities assumed for all fiscal 2014 acquisitions are not yet finalized and may change as additional information becomes available during the respective measurement periods. The primary areas of those preliminary estimates relate to certain tangible assets and liabilities, identifiable intangible assets, and taxes. Additional information, which existed as of the acquisition date but is yet unknown to the Company, may become known to the Company during the remainder of the measurement period, a period not to exceed 12 months from the acquisition date. Changes to amounts recorded as assets or liabilities will be recorded as retrospective adjustments to the provisional amounts recognized as of the acquisition date and may result in a corresponding adjustment to goodwill.

Fiscal 2013 Acquisition of Non-Controlling Interest

During the first quarter of fiscal 2013, the Company completed the acquisition of the non-controlling interest in SpringSoft, Inc. (SpringSoft), a company organized under the laws of the Republic of China (Taiwan), in which the remaining 8.4% of outstanding shares of SpringSoft along with the remaining outstanding vested stock options of SpringSoft were exchanged for cash of \$44.0 million.

Fiscal 2012 Acquisitions

Acquisition of SpringSoft

On August 3, 2012, the Company's wholly owned subsidiary incorporated under the laws of the Republic of China entered into a merger agreement pursuant to which it commenced a cash tender offer to acquire SpringSoft at a price of 57.00 New Taiwan Dollars per share. The Company acquired 91.6% of the outstanding shares of SpringSoft on October 1, 2012 for an aggregate cash consideration of \$373.5 million. The remaining 8.4% of the outstanding shares along with the fair value of outstanding SpringSoft equity awards were reflected as a Noncontrolling Interest (NCI) in the Company's fiscal 2012 financial statements. This acquisition enables the Company to strengthen and widen its offerings in design, verification and debugging tools.

The Company allocated the total purchase consideration of \$426.9 million (including the \$44.0 million for the fair value of the non-controlling interest and \$9.4 million related to equity awards assumed) to the assets acquired and liabilities assumed based on their respective fair values, including acquired identifiable intangible assets of \$107.3 million, resulting in total goodwill of \$257.6 million. Identifiable intangible assets are being amortized over three to eight years. Acquisition-related costs directly attributable to the business combination were \$6.6 million for fiscal 2012 and were expensed as incurred in the consolidated statements of operations. These costs consisted primarily of employee separation costs and professional services.

Acquisition of Magma Design Automation, Inc. (Magma)

On February 22, 2012, the Company acquired Magma, a chip design software provider, at a per-share price of \$7.35. Additionally, the Company assumed unvested restricted stock units (RSUs) and stock options, collectively called "equity awards." The aggregate purchase price was approximately \$550.2 million. This acquisition enables the Company to more rapidly meet the needs of leading-edge semiconductor designers for more sophisticated design tools.

The Company allocated the total purchase consideration of \$550.2 million (including \$6.8 million related to equity awards assumed) to the assets acquired and liabilities assumed based on their respective fair values at the acquisition date, including acquired identifiable intangible assets of \$184.3 million, resulting in total goodwill of \$316.3 million. Identifiable intangible assets are being amortized over three to ten years. Acquisition-related costs directly attributable to the business combination totaling \$33.5 million for fiscal 2012 were expensed as incurred in the consolidated statements of operations and consist primarily of employee separation costs, contract terminations, professional services, and facilities closure costs.

Other Fiscal 2012 Acquisitions

During fiscal 2012, the Company acquired five other companies, including Emulation & Verification Engineering, S.A. (EVE), for cash and allocated the total purchase consideration of \$213.2 million to the assets acquired and liabilities assumed based on their respective fair values, resulting in total goodwill of \$118.1 million. Acquired identifiable intangible assets totaling \$73.3 million were valued using appropriate valuation methods such as income or cost methods and are being amortized over their respective useful lives ranging from one to eight years. During fiscal 2012, acquisition-related costs totaling \$6.8 million were expensed as incurred in the consolidated statements of operations.

Note 4. Goodwill and Intangible Assets

Goodwill:

| | ıi) | n thousands) |
|--------------------------------|-----|--------------|
| Balance at October 31, 2012 | \$ | 1,976,987 |
| Additions | | _ |
| Other adjustments(1) | | (1,016) |
| Balance at October 31, 2013 | \$ | 1,975,971 |
| Additions | | 290,379 |
| Other adjustments(1) | | (10,642) |
| Balance at October 31, 2014(2) | \$ | 2,255,708 |

- (1) Adjustments primarily relate to changes in deferred tax estimates for acquisitions that were closed in the prior fiscal year for which the purchase price allocations were still preliminary, and/or effects of foreign currency fluctuations.
- (2) There is no accumulated impairment of goodwill for periods presented.

Intangible assets as of October 31, 2014 consist of the following:

| | Gross Assets | | Accumulated Amortization | | N | let Assets |
|--|--------------|---------|-----------------------------|-----------|----|------------|
| | | _ | (in t | housands) | | _ |
| Core/developed technology | \$ | 490,242 | \$ | 298,705 | \$ | 191,537 |
| Customer relationships | | 210,172 | | 92,146 | | 118,026 |
| Contract rights intangible | | 146,364 | | 109,067 | | 37,297 |
| Covenants not to compete | | 2,530 | | 2,530 | | _ |
| Trademarks and trade names | | 18,779 | | 7,765 | | 11,014 |
| In-process research and development (IPR&D)(1) | | 3,086 | | _ | | 3,086 |
| Capitalized software development costs | | 21,829 | | 17,759 | | 4,070 |
| Total | \$ | 893,002 | \$ | 527,972 | \$ | 365,030 |

(1) IPR&D is reclassified to core/developed technology upon completion or is written off upon abandonment. Intangible assets as of October 31, 2013 consist of the following:

SYNOPSYS, INC.

| | Gross Assets | | Gross Assets Accumulated Amortization | | let Assets |
|--|--------------|---------|---------------------------------------|-----------|---------------|
| | | | (in t | housands) | |
| Core/developed technology | \$ | 380,724 | \$ | 228,065 | \$ 152,659 |
| Customer relationships | | 177,151 | | 69,745 | 107,406 |
| Contract rights intangible | | 140,517 | | 78,950 | 61,567 |
| Covenants not to compete | | 2,530 | | 2,480 | 50 |
| Trademarks and trade names | | 10,891 | | 5,459 | 5,432 |
| In-process research and development (IPR&D)(1) | | 4,298 | | _ | 4,298 |
| Capitalized software development costs | | 18,190 | | 14,177 | 4,013 |
| Total | \$ | 734,301 | \$ | 398,876 | \$ 335,425 |

(1) IPR&D is reclassified to core/developed technology upon completion or is written off upon abandonment.

Amortization expense related to intangible assets consisted of the following:

| | Year Ended October 31, | | | | | |
|---|------------------------|---------|------|------------|----|---------|
| | 2014 | | 2013 | | | 2012 |
| | | | (in | thousands) | | |
| Core/developed technology | \$ | 70,675 | \$ | 68,781 | \$ | 57,124 |
| Customer relationships | | 22,470 | | 21,394 | | 17,141 |
| Contract rights intangible | | 30,615 | | 35,538 | | 24,113 |
| Covenants not to compete | | 50 | | 126 | | 248 |
| Trademarks and trade names | | 2,309 | | 1,663 | | 1,233 |
| Capitalized software development costs(1) | | 3,581 | | 3,222 | | 2,994 |
| Total | \$ | 129,700 | \$ | 130,724 | \$ | 102,853 |

(1) Amortization of capitalized software development costs is included in cost of license revenue in the consolidated statements of operations.

The following table presents the estimated future amortization of intangible assets:

| Fiscal Year | (in thousands) | | |
|---------------------|----------------|---------|--|
| 2015 | \$ | 128,611 | |
| 2016 | | 91,500 | |
| 2017 | | 55,366 | |
| 2018 | | 40,150 | |
| 2019 | | 20,640 | |
| 2020 and thereafter | | 25,677 | |
| IPR&D(1) | | 3,086 | |
| Total | \$ | 365,030 | |

(1) IPR&D projects are estimated to be completed within one year as of October 31, 2014. Assets are amortized over their useful life upon completion of the project or are written off upon abandonment.

Note 5. Financial Assets and Liabilities

Cash, Cash Equivalents and Investments. Cash, cash equivalents and investments are detailed as follows:

| | | Cost | | Gross Inrealized Gains | Unr Lo Les 12 I | eross realized osses s Than Months | Gross Unrealized Losses 12 Months or Longer | | Estimated air Value(1) |
|---|----|--------------------|----|------------------------------|-------------------------------------|--|---|----|---------------------------|
| Balance at October 31, 2014 | | | | | • | | | | |
| Classified as current assets: | | | | | | | | | |
| Non-interest bearing cash | \$ | 192,792 | \$ | _ | \$ | _ | \$ _ | \$ | 192,792 |
| Cash deposits and money market funds | | 792,970 | | _ | | _ | _ | | 792,970 |
| | , | 985,762 | | _ | | | _ | | 985,762 |
| Classified as other long-term assets: | | | | | | | | | |
| Non-marketable equity securities | | 10,869 | | _ | | _ | _ | | 10,869 |
| Total | \$ | 996,631 | \$ | _ | \$ | _ | \$ _ | \$ | 996,631 |
| | | | | | | | | | |
| | | Cost | U | Gross Inrealized Gains | Unr Les 12 I | ealized osses s Than Months ousands) | Gross Unrealized Losses 12 Months or Longer | | Estimated air Value(1) |
| Balance at October 31, 2013 | _ | Cost | | Inrealized | Unr Les 12 I | ealized osses s Than Months | Unrealized Losses 12 Months | | |
| Balance at October 31, 2013 Classified as current assets: | | Cost | U | Inrealized | Unr Les 12 I | ealized osses s Than Months | Unrealized Losses 12 Months | | |
| Classified as current assets: Non-interest bearing cash | \$ | Cost 183,292 | \$ | Inrealized | Unr Les 12 I | ealized osses s Than Months | \$ Unrealized Losses 12 Months | | |
| Classified as current assets: | \$ | | | Inrealized | Unr Lo Les 12 I (in the | ealized osses s Than Months | \$ Unrealized Losses 12 Months | F | air Value(1) |
| Classified as current assets: Non-interest bearing cash Cash deposits and money | \$ | 183,292 | | Inrealized | Unr Lo Les 12 I (in the | ealized osses s Than Months | \$ Unrealized Losses 12 Months | F | 183,292 |
| Classified as current assets: Non-interest bearing cash Cash deposits and money | \$ | 183,292 839,149 | | Inrealized | Unr Lo Les 12 I (in the | ealized osses s Than Months | \$ Unrealized Losses 12 Months | F | 183,292 839,149 |
| Classified as current assets: Non-interest bearing cash Cash deposits and money market funds Classified as other long-term | \$ | 183,292 839,149 | | Inrealized | Unr Lo Les 12 I (in the | ealized osses s Than Months | \$ Unrealized Losses 12 Months | F | 183,292 839,149 |

(1) See *Note 6. Fair Value Measures* for further discussion on fair values of money market funds and non-marketable equity securities.

Non-marketable equity securities. The Company's strategic investment portfolio consists of non-marketable equity securities in privately held companies. The securities accounted for under cost method investments are reported at cost net of impairment losses. Securities accounted for under equity method investments are recorded at cost plus the proportional share of the issuers' income or loss, which is recorded in the Company's other income (expense), net. The cost basis of securities sold is based on the specific identification method. Refer to Note 6. Fair Value Measures.

Derivatives. The Company recognizes derivative instruments as either assets or liabilities in the consolidated financial statements at fair value and provides qualitative and quantitative disclosures about such derivatives. The Company operates internationally and is exposed to potentially adverse movements in foreign currency exchange rates. The Company enters into hedges in the form of foreign currency forward contracts to reduce its exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions including: (1) certain assets and liabilities, (2) shipments forecasted to occur within approximately one month, (3) future billings and revenue on previously shipped orders, and (4) certain future intercompany invoices denominated in foreign currencies.

The duration of forward contracts ranges from approximately one month to 20 months, the majority of which are short-term. The Company does not use foreign currency forward contracts for speculative or trading purposes. The Company enters into foreign exchange forward contracts with high credit quality financial institutions that are rated 'A' or above and to date has not experienced nonperformance by counterparties. Further, the Company anticipates continued performance by all counterparties to such agreements.

The assets or liabilities associated with the forward contracts are recorded at fair value in other current assets or accrued liabilities in the consolidated balance sheets. The accounting for gains and losses resulting from changes in fair value depends on the use of the foreign currency forward contract and whether it is designated and qualifies for hedge accounting.

Cash Flow Hedging Activities

Certain foreign exchange forward contracts are designated and qualify as cash flow hedges. These contracts have durations of approximately 20 months or less. Certain forward contracts are rolled over periodically to capture the full length of exposure to the Company's foreign currency risk, which can be up to three years. To receive hedge accounting treatment, all hedging relationships are formally documented at the inception of the hedge, and the hedges must be highly effective in offsetting changes to future cash flows on the hedged transactions. The effective portion of gains or losses resulting from changes in fair value of these hedges is initially reported, net of tax, as a component of other comprehensive income (OCI), in stockholders' equity and reclassified into revenue or operating expenses, as appropriate, at the time the hedged transactions affect earnings. We expect a majority of the hedge balance in OCI to be reclassified to the statements of operations within the next twelve months.

Hedging effectiveness is evaluated monthly using spot rates, with any gain or loss caused by hedging ineffectiveness recorded in other income (expense), net. The premium/discount component of the forward contracts is recorded to other income (expense), net, and is not included in evaluating hedging effectiveness.

Non-designated Hedging Activities

The Company's foreign exchange forward contracts that are used to hedge non-functional currency denominated balance sheet assets and liabilities are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the underlying assets and liabilities, which are also recorded in other income (expense), net. The duration of the forward contracts for hedging the Company's balance sheet exposure is approximately one month.

The Company also has certain foreign exchange forward contracts for hedging certain international revenues and expenses that are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the foreign currency in operating income. The duration of these forward contracts is usually less than one year. The overall goal of the Company's hedging program is to minimize the impact of currency fluctuations on its net income over its fiscal year.

The effects of the changes in the fair values of non-designated forward contracts for fiscal years 2014, 2013 and 2012 are summarized as follows:

| | | Octob | er 31, | | |
|---|---------------|----------|--------|----|-------|
| | 2014 20 | | 2013 | | 2012 |
| | | (in thou | sands) | | |
| Gain (loss) recorded in other income (expense), net | \$ (3,301) | \$ | 3,009 | \$ | 1,033 |

The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding:

| | As of Octobe 2014 | r 31, As | of October 31, 2013 |
|-----------------------------|----------------------|------------|------------------------|
| | (i | n thousand | ds) |
| Total gross notional amount | \$ 793, | 937 \$ | 746,801 |
| Net fair value | \$ (2, | 455) \$ | 7,199 |

The notional amounts for derivative instruments do not represent the amount of the Company's exposure to market gain or loss. The Company's exposure to market gain or loss will vary over time as a function of currency

exchange rates. The amounts ultimately realized upon settlement of these financial instruments, together with the gains and losses on the underlying exposures, will depend on actual market conditions during the remaining life of the instruments.

The following represents the balance sheet location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments:

| | derivati des | r Values of ve instruments ignated as g instruments | deriva | nir Values of tive instruments designated as ng instruments | | | | |
|------------------------|-----------------|--|--------|--|--|--|--|--|
| | · | (in thousands) | | | | | | |
| As of October 31, 2014 | | | | | | | | |
| Other current assets | \$ | 9,299 | \$ | 1 | | | | |
| Accrued liabilities | \$ | 11,656 | \$ | 99 | | | | |
| As of October 31, 2013 | | | | | | | | |
| Other current assets | \$ | 12,417 | \$ | 20 | | | | |
| Accrued liabilities | \$ | 5,103 | \$ | 135 | | | | |

The following table represents the income statement location and amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax:

| | Location of gain (loss) recognized in OCI on derivatives | Amount of gain (loss) recognized in OCI on derivatives (effective portion) | | (loss) recognized in OCI on derivatives (effective portion) | | (loss) recognized in OCI on derivatives (effective | | Location of gain (loss) reclassified from OCI | g re | amount of ain (loss) classified from OCI effective portion) |
|------------------------------------|--|--|----------|---|----|--|--|--|---------|--|
| | | | (in thou | sands) | | | | | | |
| Fiscal year ended October 31, 2014 | | | | | | | | | | |
| Foreign exchange contracts | Revenue | \$ | 5,395 | Revenue | \$ | 2,339 | | | | |
| Foreign exchange contracts | Operating exp enses | | (10,896) | Operating exp enses | | 1,543 | | | | |
| Total | | \$ | (5,501) | | \$ | 3,882 | | | | |
| Fiscal year ended October 31, 2013 | | | | | | | | | | |
| Foreign exchange contracts | Revenue | \$ | 2,427 | Revenue | \$ | 7,457 | | | | |
| Foreign exchange contracts | Operating exp enses | | 3,680 | Operating exp enses | | (892) | | | | |
| Total | | \$ | 6,107 | | \$ | 6,565 | | | | |
| Fiscal year ended October 31, 2012 | | | | | | | | | | |
| Foreign exchange contracts | Revenue | \$ | 5,212 | Revenue | \$ | (1,868) | | | | |
| Foreign exchange contracts | Operating exp enses | | (7,640) | Operating exp enses | | (12,367) | | | | |
| Total | | \$ | (2,428) | | \$ | (14,235) | | | | |

The following table represents the ineffective portions and portions excluded from effectiveness testing of the hedge gains (losses) for derivative instruments designated as hedging instruments, which are recorded in other income (expense) income, net:

| Foreign exchange contracts | Amount of gain recognized in i statement on der ge contracts (ineffective por | | | | | | |
|------------------------------------|--|-------|----|-------|--|--|--|
| | (in thousands) | | | | | | |
| Fiscal year ended October 31, 2014 | \$ | (302) | \$ | 3,259 | | | |
| Fiscal year ended October 31, 2013 | \$ | 293 | \$ | 2,518 | | | |
| Fiscal year ended October 31, 2012 | \$ | 38 | \$ | 1,321 | | | |

- (1) The ineffective portion includes forecast inaccuracies.
- (2) The portion excluded from effectiveness testing includes the discount earned or premium paid for the contracts.

Other Commitments - Credit and Term Loan Facilities

On February 17, 2012, the Company entered into an agreement with several lenders (the Credit Agreement) providing for (i) a \$350.0 million senior unsecured revolving credit facility (the Revolver) and (ii) a \$150.0 million senior unsecured term loan facility (the Term Loan). Principal payments on a portion of the Term Loan are due in equal quarterly installments of \$7.5 million, with the remainder due when the Credit Agreement expires in October 2016. The Company can elect to make prepayments on the Term Loan, in whole or in part, without premium or penalty. Subject to obtaining additional commitments from lenders, the principal amount of the loans provided under the Credit Agreement may be increased by the Company by up to an additional \$150.0 million through October 13, 2015. The Credit Agreement contains financial covenants requiring the Company to operate within a maximum leverage ratio and maintain specified levels of cash, as well as other non-financial covenants.

During the second quarter of fiscal 2014, the Company drew down \$200.0 million under the Revolver to finance a portion of the purchase price for the acquisition of Coverity on March 24, 2014 and during the third quarter of fiscal 2014, the Company repaid the \$200.0 million balance under the Revolver. As of October 31, 2014, the Company had a \$75.0 million outstanding balance under the Term Loan, of which \$45.0 million is classified as long-term and no outstanding balance under the Revolver. As of October 31, 2013, the Company had a \$105.0 million outstanding balance under the Term Loan, of which \$75.0 million is classified as long-term and no outstanding balance under the Revolver. Borrowings bear interest at a floating rate based on a margin over the Company's choice of market observable base rates as defined in the Credit Agreement. At October 31, 2014, borrowings under the Term Loan bore interest at LIBOR +1.125% and the applicable interest rate for the Revolver was LIBOR +0.975%. In addition, commitment fees are payable on the Revolver at rates between 0.150% and 0.300% per year based on the Company's leverage ratio on the daily amount of the revolving commitment, also refer to *Note 15*. *Subsequent Events*.

These borrowings under the Credit Agreement have a variable interest rate structure and are classified within Level 2 of the fair value hierarchy. The carrying amount of the short-term and long-term debt approximates the estimated fair value.

As a result of the Coverity acquisition, the Company assumed Coverity's credit facility with a U.S. bank that had an original expiration date of December 31, 2014. The facility provided a maximum borrowing limit of \$7.0 million. During the third quarter of fiscal 2014, the Company chose to terminate the Coverity credit facility prior to the original expiration date.

Note 6. Fair Value Measures

The accounting guidance requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The accounting guidance also establishes a fair value hierarchy based on the independence of the source and objective evidence of the inputs used. There are three fair value hierarchies based upon the level of inputs that are significant to fair value measurement:

Level 1—Observable inputs that reflect quoted prices (unadjusted) for identical instruments in active markets;

SYNOPSYS, INC. Level 2—Observable inputs other than quoted prices included in Level 1 for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-driven valuations in which all significant inputs and significant value drivers are observable in active markets; and

Level 3—Unobservable inputs to the valuation derived from fair valuation techniques in which one or more significant inputs or significant value drivers are unobservable.

On a recurring basis, the Company measures the fair value of certain of its assets and liabilities, which include cash equivalents, non-qualified deferred compensation plan assets, foreign currency derivative contracts, and contingent consideration associated with business combinations.

The Company's cash equivalents are classified within Level 1 or Level 2 because they are valued using quoted market prices in an active market or alternative independent pricing sources and models utilizing market observable inputs.

The Company's non-qualified deferred compensation plan assets consist of money market and mutual funds invested in domestic and international marketable securities that are directly observable in active markets and are therefore classified within Level 1.

The Company's foreign currency derivative contracts are classified within Level 2 because these contracts are not actively traded and the valuation inputs are based on quoted prices and market observable data of similar instruments.

The Company's borrowings under its credit and term loan facilities are classified within Level 2 because these borrowings are not actively traded and have a variable interest rate structure based upon market rates currently available to the Company for debt with similar terms and maturities. Refer to Note 5. Financial Assets and Liabilities.

The Company's liabilities for contingent consideration are classified within Level 3 because these valuations are based on management assumptions including discount rates and estimated probabilities of achievement of certain milestones which are unobservable in the market. The Company did not record any significant changes during fiscal 2014 and 2013. As of October 31, 2014, the Company did not have any outstanding contingent consideration liability and as of October 31, 2013, the fair value of contingent consideration liability was estimated at \$0.5 million.

Assets/Liabilities Measured at Fair Value on a Recurring Basis

Assets and liabilities measured at fair value on a recurring basis are summarized below as of October 31, 2014:

| | | | Fair Value Measurement Using | | | | | | |
|---|----|---------|------------------------------|---|-------|---|----|--|--|
| Description | | Total | | Quoted Prices in Active Markets for Identical Assets (Level 1) | | Significant Other Observable Inputs (Level 2) | | Significant bservable Inputs (Level 3) | |
| | | | | (in th | ousar | nds) | | | |
| Assets | | | | | | | | | |
| Cash equivalents: | | | | | | | | | |
| Money market funds | \$ | 409,064 | \$ | 409,064 | \$ | _ | \$ | _ | |
| Prepaid and other current assets: | | | | | | | | | |
| Foreign currency derivative contracts | | 9,300 | | _ | | 9,300 | | _ | |
| Other long-term assets: | | | | | | | | | |
| Deferred compensation plan assets | | 145,508 | | 145,508 | | _ | | _ | |
| Total assets | \$ | 563,872 | \$ | 554,572 | \$ | 9,300 | \$ | _ | |
| Liabilities | | | | | | | | | |
| Accounts payable and accrued liabilities: | | | | | | | | | |
| Foreign currency derivative contracts | \$ | 11,755 | \$ | _ | \$ | 11,755 | \$ | _ | |
| Total liabilities | \$ | 11,755 | \$ | _ | \$ | 11,755 | \$ | _ | |
| | | | _ | | _ | | _ | | |

Assets and liabilities measured at fair value on a recurring basis are summarized below as of October 31, 2013:

| | | | Fair Value Measurement Using | | | | | | |
|---|----|---------|------------------------------|--|-------|--|-----|--|--|
| Description | | Total | | uoted Prices in active Markets Identical Assets (Level 1) | | nificant Other servable Inputs (Level 2) | Uno | Significant bservable Inputs (Level 3) | |
| | | | | (in th | ousai | nds) | | | |
| Assets | | | | | | | | | |
| Cash equivalents: | | | | | | | | | |
| Money market funds | \$ | 552,470 | \$ | 552,470 | \$ | _ | \$ | _ | |
| Prepaid and other current assets: | | | | | | | | | |
| Foreign currency derivative contracts | | 12,437 | | _ | | 12,437 | | _ | |
| Other long-term assets: | | | | | | | | | |
| Deferred compensation plan assets | | 126,621 | | 126,621 | | _ | | _ | |
| Total assets | \$ | 691,528 | \$ | 679,091 | \$ | 12,437 | \$ | _ | |
| Liabilities | | | | | | | | | |
| Accounts payable and accrued liabilities: | | | | | | | | | |
| Foreign currency derivative contracts | \$ | 5,238 | \$ | _ | \$ | 5,238 | \$ | _ | |
| Contingent consideration | | 493 | | _ | | _ | | 493 | |
| Total liabilities | \$ | 5,731 | \$ | _ | \$ | 5,238 | \$ | 493 | |

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Assets/Liabilities Measured at Fair Value on a Non-Recurring Basis

Non-Marketable Equity Securities

Equity investments in privately-held companies, also called non-marketable equity securities, are accounted for using either the cost or equity method of accounting. These investments are not material for the periods presented.

These equity investments are classified within Level 3 as they are valued using significant unobservable inputs or data in an inactive market, and the valuation requires management judgment due to the absence of market price and inherent lack of liquidity. The non-marketable equity securities are measured and recorded at fair value when an event or circumstance which impacts the fair value of these securities indicates an other-than-temporary decline in value has occurred. The Company monitors these investments and generally uses the income approach to assess impairments based primarily on the financial conditions of these companies.

The Company did not recognize any impairment during fiscal 2014 and 2013. The Company recorded \$0.5 million of other-than-temporary impairments during fiscal 2012.

The following tables present the non-marketable equity securities that were measured and recorded at fair value within other long-term assets and the loss recorded in other income (expense), net during the following periods:

| | Balance a October 2012 | | Significant Unobservable Inputs (Level 3) (in thousands) | | Total (losses) Fiscal 2 | for |
|----------------------------------|------------------------------|---|--|-----|-------------------------------|-------|
| Non-marketable equity securities | \$ | _ | \$ - | - ; | \$ | (452) |

As of October 31, 2014, the Company's non-marketable securities were \$10.9 million of which \$6.7 million and \$4.2 million were accounted for under the cost method and equity method, respectively. As of October 31, 2013, the fair value of non-marketable securities was \$11.5 million, of which \$6.9 million and \$4.6 million were accounted for under the cost method and equity method, respectively. During the twelve months ended October 31, 2014, the Company received cash distributions of \$7.1 million from the liquidation of one of its investments with a cost basis of \$0.2 million resulting in a \$6.9 million gain, which was recorded to other income (expense), net.

Note 7. Commitments and Contingencies

Lease Commitments

The Company leases certain of its domestic and foreign facilities and certain office equipment under non-cancelable lease agreements. The lease agreements generally require the Company to pay property taxes, insurance, maintenance and repair costs. Rent expenses were \$65.6 million, \$64.4 million and \$62.0 million in fiscal 2014, 2013 and 2012, respectively. The Company charges operating lease payments to expense using the straight-line method. The Company subleases portions of its facilities and records sublease payments as a reduction of rent expense.

On October 15, 2011, the Company agreed to lease two office buildings to be constructed in Mountain View, California. Once construction is complete, the buildings together will provide approximately 341,000 square feet. The lease of such premises begins on March 1, 2015, and expires approximately 15 years thereafter and can be extended for an additional 19 years after such initial expiration. The Company may terminate the lease if the lessor fails to substantially complete construction of the buildings by March 1, 2015. The Company may elect for early occupancy if certain conditions are met.

Anticipated future minimum lease payments on all non-cancellable operating leases with a term in excess of one year, net of sublease income, as of October 31, 2014 are as follows:

| Lease | Sublease Income | | | Net |
|---------------|--|--|---|---|
| | (in | thousands) | | |
| | | | | |
| \$ 40,548 | \$ | 1,661 | \$ | 38,887 |
| 40,862 | | 1,584 | | 39,278 |
| 35,844 | | 771 | | 35,073 |
| 30,032 | | 626 | | 29,406 |
| 29,376 | | 640 | | 28,736 |
| 196,252 | | 1,204 | | 195,048 |
| \$ 372,914 | \$ | 6,486 | \$ | 366,428 |
| \$ | \$ 40,548 40,862 35,844 30,032 29,376 196,252 | \$ 40,548 \$ 40,862 35,844 30,032 29,376 196,252 | \$ 40,548 \$ 1,661 40,862 1,584 35,844 771 30,032 626 29,376 640 196,252 1,204 | Lease Payments Sublease Income (in thousands) \$ 40,548 \$ 1,661 \$ 40,862 1,584 35,844 771 30,032 626 29,376 640 196,252 1,204 |

Legal Proceedings

The Company is subject to routine legal proceedings, as well as demands, claims and threatened litigation, which arise in the normal course of its business. The ultimate outcome of any litigation is uncertain and unfavorable outcomes could have a negative impact on the Company's financial position and results of operations. The Company reviews the status of each significant matter and assesses its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount is estimable, the Company accrues a liability for the estimated loss. The Company has determined that no disclosure of estimated loss is required for a claim against the Company because: (a) there is not a reasonable possibility that a loss exceeding amounts already recognized (if any) may be incurred with respect to such claim; (b) a reasonably possible loss or range of loss cannot be estimated; or (c) such estimate is immaterial.

Mentor Patent Litigation

The Company is engaged in complex patent litigation with Mentor Graphics Corporation (Mentor) involving several actions in different forums. The Company acquired Emulation & Verification Engineering S.A. (EVE) on October 4, 2012. At the time of the acquisition, EVE and EVE-USA, Inc. (collectively, the EVE Parties) were defendants in three patent infringement lawsuits filed by Mentor. Mentor filed suit against the EVE Parties in federal district court in the District of Oregon on August 16, 2010 alleging that EVE's ZeBu products infringed Mentor's United States Patent No. 6,876,962. Mentor filed an additional suit in federal district court in the District of Oregon on August 17, 2012 alleging that EVE's ZeBu products infringed Mentor's United States Patent No. 6,947,882. Both cases sought compensatory damages, including lost profits and royalties, and a permanent injunction. Mentor also filed a patent infringement lawsuit against Nihon EVE K.K. in Tokyo District Court in 2010 alleging that EVE's ZeBu series of products infringes Mentor's Japanese Patent No. P3,588,324. This case seeks compensatory damages, a permanent injunction and destruction of inventory.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—Continued

On September 27, 2012, the Company and the EVE Parties filed an action for declaratory relief against Mentor in federal district court in the Northern District of California, seeking a determination that Mentor's United States Patents Nos. 6,009,531; 5,649,176 and 6,240,376, which were the subject of a patent infringement lawsuit filed by Mentor against EVE in 2006 and settled in the same year, are invalid and not infringed by EVE's products, and that Mentor is without right or authority to threaten or maintain suit against the plaintiffs on such patents. Mentor asserted patent infringement counterclaims in this action based on the same three patents and sought compensatory damages, including lost profits and royalties, and a permanent injunction. In April 2013, this action was transferred to the federal district court in Oregon and consolidated with the two Mentor lawsuits in that district (the Oregon Action).

The Oregon Action

In the Oregon Action, the Company and the EVE Parties further asserted patent infringement counterclaims against Mentor based on the Company's United States Patents Nos. 6,132,109 and 7,069,526, seeking compensatory damages and a permanent injunction. On February 21, 2014, the court granted Mentor's motion for partial summary judgment based on assignor estoppel, in which Mentor argued the Company was barred from challenging the validity of Mentor's '376 patent. In July 2014, the court granted the Company's motion for partial summary judgment on the '531 and '176 patents, finding that Mentor was barred from asserting those patents under the doctrine of *res judicata*. The court also granted cross-motions for partial summary judgment brought by both parties, finding that Mentor's '962 and '882 patents and the Company's '109 and '526 patents were non-infringed and/or invalid. As a result of these rulings, the only patent remaining at issue in the Oregon Action is Mentor's '376 patent.

The Oregon Action went to trial on the remaining Mentor patent, and a jury reached a verdict on October 10, 2014 finding that certain features of the ZeBu products infringed the '376 patent and assessing damages of approximately \$36 million. Mentor has also filed a request for injunction based on the jury verdict. The Company is opposing Mentor's request for injunction and intends to appeal from the verdict. The Company has accrued an immaterial amount as a loss contingency. The Company cannot estimate a range of losses, if any, exceeding the amount already accrued.

The California Action

On December 21, 2012, the Company filed an action for patent infringement against Mentor in federal district court in the Northern District of California, alleging that Mentor's Veloce products infringe the Company's United States Patents Nos. 5,748,488, 5,530,841, 5,680,318 and 6,836,420 (the California Action). This case seeks compensatory damages and a permanent injunction. The court stayed the action as to the '420 patent pending the U.S. Patent and Trademark Office's *inter partes* review of that patent (discussed below), and it scheduled trial of the Company's remaining claims for March 2, 2015.

PTO Proceedings

On September 26, 2012, the Company filed two *inter partes* review requests with the U.S. Patent and Trademark Office (the PTO) challenging the validity of Mentor's '376 and '882 patents. The PTO granted review of the '376 patent and denied review of the '882 patent. On February 19, 2014, the PTO issued its final decision in the review of the '376 patent, finding some of the challenged claims invalid and some of the challenged claims valid. On April 22, 2014, the Company appealed to the Federal Circuit from the PTO's decision. Mentor filed a cross-appeal on May 2, 2014.

On December 21, 2013, Mentor filed an *inter partes* review request with the PTO challenging the validity of the Company's '420 patent. On June 12, 2014, the PTO granted review of the '420 patent.

Note 8. Accumulated Other Comprehensive Income (Loss)

Components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, were as follows:

| | | Year Ended October 31, | | | | |
|--|----------------|------------------------|----|----------|--|--|
| | 2014 | | | 2013 | | |
| | (in thousands) | | | | | |
| Cumulative currency translation adjustments | \$ | (50,941) | \$ | (26,848) | | |
| Unrealized gain (loss) on derivative instruments, net of taxes | | (11,148) | | (1,847) | | |
| Total accumulated other comprehensive income (loss) | \$ | (62,089) | \$ | (28,695) | | |

The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income was as follows:

| | Year Ended October 31, | | | | | |
|---|------------------------|-------|-----|------------|----|----------|
| | | 2014 | | 2013 | | 2012 |
| | | | (in | thousands) | | |
| Reclassifications from accumulated other comprehensive income (loss) into consolidated statement of operations: | | | | | | |
| Gain (loss) on cash flow hedges, net of taxes | | | | | | |
| Revenues | \$ | 2,339 | \$ | 7,457 | \$ | (1,868) |
| Operating expenses | | 1,543 | | (892) | | (12,367) |
| Total reclassifications into net income | \$ | 3,882 | \$ | 6,565 | \$ | (14,235) |

Amounts reclassified in fiscal 2014, 2013 and 2012 consisted of gains (losses) from the Company's cash flow hedging activities. Refer to *Note 5. Financial Assets and Liabilities*.

Note 9. Stock Repurchase Program

The Company's Board of Directors (Board) approved a stock repurchase program in 2002 pursuant to which the Company was authorized to purchase up to \$500.0 million of its common stock, and has periodically replenished the stock repurchase program to such amount. The Board replenished the stock repurchase program up to \$500.0 million on December 3, 2013, as announced on December 4, 2013. The program does not obligate Synopsys to acquire any particular amount of common stock, and the program may be suspended or terminated at any time by Synopsys' Chief Financial Officer or the Board. The Company repurchases shares to offset dilution caused by ongoing stock issuances from existing equity plans for equity compensation awards and issuances related to acquisitions, and when management believes it is a good use of cash. Repurchases are transacted in accordance with Rule 10b-18 of the Securities Exchange Act of 1934 (Exchange Act) and may be made through any means including, but not limited to, open market purchases, plans executed under Rule 10b5-1(c) of the Exchange Act and structured transactions. As of October 31, 2014, \$380.3 million remained available for further repurchases under the program, also refer to *Note 15. Subsequent Events*.

The following table summarizes stock repurchase activities as well as the reissuance of treasury stock for employee stock compensation purposes:

| | | Year Ended October 31, | | | | | | |
|------------------------------|--|------------------------|----|---------|----|--------|--|--|
| | | 2014 | | 2013 | | 2012 | | |
| | (in thousands, except per share price) | | | | | | | |
| Shares repurchased | | 3,092 | | 3,996 | | 2,474 | | |
| Average purchase price | \$ | 38.72 | \$ | 36.29 | \$ | 29.64 | | |
| Aggregate purchase price(1) | \$ | 119,747 | \$ | 145,016 | \$ | 73,335 | | |
| Reissuance of treasury stock | | 4,888 | | 7,266 | | 10,065 | | |

(1) During the first quarter of fiscal 2012, a \$33.3 million equity forward contract related to an accelerated share repurchase agreement entered into by the Company in September 2011 was settled with 1,105,457 shares of the Company's common stock.

Note 10. Employee Benefit Plans

Employee Stock Purchase Plan

Under the Company's Employee Stock Purchase Plan (ESPP), employees are granted the right to purchase shares of common stock at a price per share that is 85% of the lesser of the fair market value of the shares at (1) the beginning of a rolling two year offering period or (2) the end of each semi-annual purchase period, subject to a plan limit on the number of shares that may be purchased in a purchase period.

On April 2, 2014, the Company's stockholders approved an amendment to the ESPP to increase the number of shares of common stock authorized for issuance under the plan by 5.0 million shares. During fiscal 2014, 2013 and 2012, the Company issued 1.8 million, 2.1 million, and 2.0 million shares, respectively, under the ESPP at average per share prices of \$30.00, \$22.75 and \$21.65, respectively. As of October 31, 2014, 7.0 million shares of common stock were reserved for future issuance under the ESPP.

Equity Compensation Plans

2006 Employee Equity Incentive Plan. On April 25, 2006, the Company's stockholders approved the 2006 Employee Equity Incentive Plan (2006 Employee Plan), which provides for the grant of incentive stock options, non-statutory stock options, restricted stock awards, restricted stock unit awards, stock appreciation rights and other forms of equity compensation, including performance stock awards and performance cash awards, as determined by the plan administrator. The terms and conditions of each type of award are set forth in the 2006 Employee Plan. Options granted under this plan have a contractual term of seven years and generally vest over four years. On April 2, 2014, the Company's stockholders approved an amendment to increase the number of shares of common stock reserved for future issuance under the 2006 Employee Plan by 7.5 million shares and to extend the term of the plan by ten years. As of October 31, 2014, an aggregate of 6.8 million stock options and 3.9 million restricted stock units were outstanding, and 12.2 million shares were available for future issuance under the 2006 Employee Plan.

As a result of the stockholders' approval of the 2006 Employee Plan in 2006, the Company's 1992 Stock Option Plan, 1998 Non-Statutory Stock Option Plan and 2005 Assumed Stock Option Plan (collectively, the Prior Plans) have been terminated for future grants. Should any options currently outstanding under such Prior Plans and plans assumed by the Company in acquisitions prior to fiscal 2006 be cancelled or expire unexercised, the shares underlying such options shall become available for future grant under the 2006 Employee Plan. As of October 31, 2014, there are 13,178 shares outstanding under the Prior Option Plans.

2005 Non-Employee Directors Equity Incentive Plan. On May 23, 2005, the Company's stockholders approved the 2005 Non-Employee Directors Equity Incentive Plan (the 2005 Directors Plan). The 2005 Directors Plan provides for annual equity awards to non-employee directors in the form of stock options, restricted stock or a combination thereof. The Company's stockholders have approved an aggregate of 0.8 million shares of common stock reserved under the 2005 Directors Plan.

As of October 31, 2014, the Company has issued an aggregate of 321,550 shares of restricted stock awards with an aggregate grant date fair value of approximately \$8.0 million under the 2005 Directors Plan. Restricted stock awards vest over a period of three years. In addition, the Company granted options to purchase 123,649 shares of common stock, which vest over a period of three to four years, with an aggregate grant date fair value of \$3.3 million, to non-employee directors during fiscal 2007 and fiscal 2011. As of October 31, 2014, 48,475 shares of restricted stock were unvested and 42,147 stock options were outstanding, and a total of 318,144 shares of common stock were reserved for future grant under the 2005 Directors Plan.

Other Assumed Stock Plans through Acquisitions. In connection with the Company's acquisitions in fiscal 2008, fiscal 2010, fiscal 2012, and fiscal 2014, the Company assumed certain outstanding stock awards of acquired companies. If these assumed equity awards are canceled, forfeited or expire unexercised, the underlying shares do not become available for future grant. As of October 31, 2014, 0.9 million shares of the Company's common stock remained subject to such outstanding assumed equity awards.

Restricted Stock Units. Since fiscal 2007, restricted stock units are granted under the 2006 Employee Plan as part of the Company's new hire and annual incentive compensation program. Restricted stock units are valued based on the closing price of the Company's common stock on the grant date. In general, restricted stock units vest over three to four years and are subject to the employee's continuing service with the Company. For each restricted stock unit granted under the 2006 Employee Plan, a share reserve ratio is applied for the purpose of determining the remaining number of shares reserved for future grants under the plan. On March 24, 2011, the

stockholders approved an amendment of the 2006 Employee Plan to prospectively change the reserve ratio from 2.18 to 1.25. On April 3, 2012, the stockholders approved amending the share reserve ratio from 1.25 to 1.50.

The following table contains information concerning activities related to restricted stock units:

| | Restricted Stock Units | | Weighted Average Grant Date Fair Value | Weighted Average Remaining Contractual Life (In Years) | A | Aggregate Fair Value |
|-----------------------------|---------------------------|-----|---|--|-------|----------------------------|
| | (in the | ous | ands, except per | share and life amo | unts) | |
| Balance at October 31, 2011 | 3,454 | \$ | 24.28 | 1.48 | | |
| Granted | 1,813 | \$ | 29.52 | | | |
| Assumed(2) | 353 | \$ | 30.33 | | | |
| Vested(1) | (1,508) | \$ | 24.14 | | \$ | 36,402 |
| Forfeited | (192) | \$ | 26.70 | | | |
| Balance at October 31, 2012 | 3,920 | \$ | 27.18 | 1.52 | | |
| Granted | 1,680 | \$ | 35.27 | | | |
| Vested(1) | (1,476) | \$ | 35.40 | | \$ | 52,234 |
| Forfeited | (141) | \$ | 28.36 | | | |
| Balance at October 31, 2013 | 3,983 | \$ | 27.51 | 1.51 | | |
| Granted | 1,645 | \$ | 39.03 | | | |
| Vested(1) | (1,564) | \$ | 38.87 | | \$ | 60,815 |
| Forfeited | (117) | \$ | 32.95 | | | |
| Balance at October 31, 2014 | 3,947 | \$ | 27.65 | 1.53 | | |

⁽¹⁾ The number of vested restricted stock units includes shares that were withheld on behalf of employees to satisfy the statutory tax withholding requirements.

⁽²⁾ The Company assumed certain restricted stock units outstanding under various plans through acquisitions.

The following table contains additional information concerning activities related to stock options and restricted stock units under all equity plans, other than shares available for grant under the 2005 Directors Plan:

| | _ | Options(2) | | | | | | |
|--|---------------------------|------------------------|----|---|---|----|---------------------------------|--|
| | Available for Grant(3) | Options Outstanding | Pr | Weighted- erage Exercise rice per Share | Weighted- Average Remaining Contractual Life (In Years) | | Aggregate Intrinsic Value | |
| | | , , | | ept per share and | , | _ | | |
| Balance at October 31, 2011 | 5,911 | 15,960 | \$ | 22.76 | 2.97 | \$ | 74,068 | |
| Options Granted | (1,719) | 1,719 | \$ | 28.86 | | | | |
| Options Assumed(2) | | 382 | \$ | 19.15 | | | | |
| Options Exercised | | (7,103) | | 21.09 | | | | |
| Options Canceled/forfeited/expired | 631 | (739) | \$ | 25.07 | | | | |
| Restricted stock units granted(1) | (2,638) | | | | | | | |
| Restricted stock units forfeited(1) | 167 | | | | | | | |
| Additional shares reserved | 5,000 | | | | | | | |
| Balance at October 31, 2012 | 7,352 | 10,219 | \$ | 24.64 | 3.71 | \$ | 80,950 | |
| Options Granted | (1,704) | 1,704 | \$ | 34.10 | | | | |
| Options Assumed(2) | | 158 | \$ | 23.60 | | | | |
| Options Exercised | | (4,173) | \$ | 24.34 | | | | |
| Options Canceled/forfeited/expired | 159 | (182) | \$ | 24.17 | | | | |
| Restricted stock units granted(1) | (2,519) | | | | | | | |
| Restricted stock units forfeited(1) | 184 | | | | | | | |
| Additional shares reserved | 5,000 | | | | | | | |
| Balance at October 31, 2013 | 8,472 | 7,726 | \$ | 26.87 | 4.30 | \$ | 71,700 | |
| Options Granted | (1,686) | 1,686 | \$ | 38.65 | | | | |
| Options Assumed(2) | | 843 | \$ | 24.63 | | | | |
| Options Exercised | | (2,103) | \$ | 24.47 | | | | |
| Options Canceled/forfeited/expired | 163 | (402) | \$ | 27.44 | | | | |
| Restricted stock units granted(1) | (2,468) | | | | | | | |
| Restricted stock units forfeited(1) | 174 | | | | | | | |
| Additional shares reserved | 7,500 | | | | | | | |
| Balance at October 31, 2014 | 12,155 | 7,750 | \$ | 29.81 | 4.66 | \$ | 86,537 | |
| Vested and expected to vest as of October 31, 2014 | | 7,677 | \$ | 29.76 | 4.65 | \$ | 86,126 | |
| Exercisable at October 31, 2014 | | 3,844 | \$ | 26.04 | 3.53 | \$ | 57,418 | |
| | | | | | | | | |

⁽¹⁾ These amounts do not reflect the actual number of restricted stock units granted or forfeited but rather the effect on the total remaining shares available for future grants after the application of the share reserve ratio. For more information about the share reserve ratio, please see *Restricted Stock Units* above.

⁽²⁾ The Company assumed options outstanding under various plans through acquisitions.

⁽³⁾ Excluding shares reserved for future issuance under the 2005 Directors Plan.

The aggregate intrinsic value in the preceding table represents the total pretax intrinsic value based on stock options with an exercise price less than the Company's closing stock price of \$40.98 as of October 31, 2014. The pretax intrinsic value of options exercised and their average exercise prices were:

| | Year Ended October 31, | | | | | | |
|----------------------------------|--|----|--------|----|--------|--|--|
| | 2014 | | 2013 | | 2012 | | |
| | (in thousands, except per share price) | | | | | | |
| Intrinsic value | \$ 32,094 | \$ | 46,592 | \$ | 63,048 | | |
| Average exercise price per share | \$ 24.47 | \$ | 24.34 | \$ | 21.09 | | |

Restricted stock award activities during fiscal 2014 under the 2005 Directors Plan are summarized as follows:

| | Restricted Shares | A\ Grant | ighted- verage Date Fair /alue | |
|------------------------------|----------------------|-------------|---|--|
| | (in thou | usands) | | |
| Unvested at October 31, 2013 | 53 | \$ | 32.48 | |
| Granted | 22 | \$ | 38.70 | |
| Vested | (27) | \$ | 31.18 | |
| Forfeited | _ | | _ | |
| Unvested at October 31, 2014 | 48 | \$ | 36.09 | |

Valuation and Expense of Stock Compensation. The Company estimates the fair value of stock based awards in the form of stock options, employee stock purchases under employee stock purchase plans, restricted stock, and restricted stock units on the grant date. The value of awards expected to vest is recognized as expense over the applicable service periods. The Company uses the straight-line attribution method to recognize stock compensation costs over the service period of the award. The Company uses the Black-Scholes option-pricing model to determine the fair value of stock options, stock appreciation rights and employee stock purchase plans awards. The Black-Scholes option-pricing model incorporates various subjective assumptions including expected volatility, expected term and interest rates. The expected volatility for both stock options and stock purchase rights under the ESPP is estimated by a combination of implied volatility for publicly traded options of the Company's common stock with a term of six months or longer and the historical stock price volatility over the estimated expected term of the Company's stock-based awards. The expected term of the Company's stock-based awards is based on historical experience.

The assumptions presented in the following table were used to estimate the fair value of stock options and employee stock purchase rights granted under the Company's stock plans or stock plans assumed from acquisitions:

| | | Year Ended October 31, | |
|---------------------------------------|-----------------|------------------------|-----------------|
| | 2014 | 2013 | 2012 |
| Stock Options | | | |
| Expected life (in years) | 4.5 | 4.7 | 1.0 - 4.9 |
| Risk-free interest rate | 1.38% - 1.74% | 0.62% - 1.66% | 0.22% - 0.95% |
| Volatility | 18.38%-20.00% | 20.61% - 26.47% | 22.65% - 29.76% |
| Weighted average estimated fair value | \$10.95 | \$7.29 | \$8.46 |
| ESPP | | | |
| Expected life (in years) | 0.5 - 2.0 | 0.5 - 2.0 | 0.5 - 2.0 |
| Risk-free interest rate | 0.05% - 0.58% | 0.10% - 0.43% | 0.16% - 0.34% |
| Volatility | 16.84% - 18.78% | 17.12% - 21.75% | 21.95% - 23.20% |
| Weighted average estimated fair value | \$9.17 | \$8.19 | \$8.02 |

The following table presents stock compensation expense for fiscal 2014, 2013 and 2012, respectively:

| | Year Ended October 31, | | | | |
|---|------------------------|----------|----------------|----|----------|
| | | 2014 | 2013 | | 2012 |
| | | _ | (in thousands) | | |
| Cost of license | \$ | 8,122 | \$ 6,597 | | 6,927 |
| Cost of maintenance and service | | 2,336 | 1,628 | | 1,727 |
| Research and development expense | | 38,241 | 32,423 | | 32,767 |
| Sales and marketing expense | | 16,754 | 13,983 | | 13,566 |
| General and administrative expense | | 13,987 | 12,880 | | 16,427 |
| Stock compensation expense before taxes | | 79,440 | 67,511 | | 71,414 |
| Income tax benefit | | (18,224) | (16,446) | | (15,989) |
| Stock compensation expense after taxes | \$ | 61,216 | \$ 51,065 | \$ | 55,425 |

As of October 31, 2014, the Company had \$139.4 million of total unrecognized stock compensation expense relating to options and restricted stock units and awards, which is expected to be recognized over a weighted average period of 2.5 years.

The cash flows resulting from the tax benefits for tax deductions in excess of the compensation expense recorded for the options (excess tax benefits) are classified as cash flows from financing activities. The Company has not recorded any excess tax benefits in fiscal periods 2014, 2013 and 2012.

Deferred Compensation Plan. The Company maintains the Synopsys Deferred Compensation Plan (the Deferred Plan), which permits eligible employees to defer up to 50% of their annual cash base compensation and up to 100% of their eligible cash variable compensation. Amounts may be withdrawn from the Deferred Plan pursuant to elections made by the employees in accordance with the terms of the plan. Since the inception of the Deferred Plan, the Company has not made any matching or discretionary contributions to the Deferred Plan. There are no Deferred Plan provisions that provide for any guarantees or minimum return on investments. Undistributed amounts under the Deferred Plan are subject to the claims of the Company's creditors. The securities held by the Deferred Plan are classified as trading securities.

Deferred Plan Assets and Liabilities are as follows:

| | As of | October 31, 2014 | As of | October 31, 2013 | | |
|---|----------------|---------------------|-------|---------------------|--|--|
| | (In thousands) | | | | | |
| Plan assets recorded in other long-term assets | \$ | 145,508 | \$ | 126,621 | | |
| Plan liabilities recorded in other long-term liabilities(1) | \$ | 145,508 | \$ | 126,621 | | |

(1) For undistributed deferred compensation balances due to participants.

Income or loss from the change in fair value of the Deferred Plan assets is recorded in other income (expense), net. The increase or decrease in the fair value of the undistributed Deferred Plan obligation is recorded in total cost of revenue and operating expense. The following table summarizes the impact of the Deferred Plan:

| | Year Ended October 31, | | | | | | |
|---|------------------------|--------|-----|------------|----|-------|--|
| | 2014 | | | 2013 | | 2012 | |
| | | | (in | thousands) | | | |
| Increase (reduction) to cost of revenue and operating expense | \$ | 10,856 | \$ | 18,453 | \$ | 7,498 | |
| Other income (expense), net | | 10,856 | | 18,453 | | 7,498 | |
| Net increase (decrease) to net income | \$ | | \$ | | \$ | _ | |

Other Retirement Plans. The Company sponsors various retirement plans for its eligible U.S. and non-U.S. employees. Total contributions to these plans were \$23.8 million, \$21.3 million and \$23.2 million in fiscal 2014, 2013 and 2012, respectively. For employees in the United States and Canada, the Company matches pretax employee contributions up to a maximum of US \$1,500 and Canadian \$4,000, respectively, per participant per year.

Note 11. Income Taxes

SYNOPSYS, INC.

The domestic and foreign components of the Company's total income (loss) before provision for income taxes are as follows:

| | | Year Ended October 31, | | | | | | |
|---------------|----|------------------------|-----|------------|----|---------|--|--|
| | - | 2014 | | 2013 | | 2012 | | |
| | | | (in | thousands) | | | | |
| United States | \$ | (7,638) | \$ | 61,818 | \$ | 39,855 | | |
| Foreign | | 279,780 | | 213,848 | | 161,280 | | |
| | \$ | 272,142 | \$ | 275,666 | \$ | 201,135 | | |

The components of the (benefit) provision for income taxes were as follows:

| | Year Ended October 31, | | | | |
|--------------------------------------|------------------------|----------------|----|----------|--|
| | 2014 | 2013 | | 2012 | |
| | _ | (in thousands) | | | |
| Current: | | | | | |
| Federal | \$ (14,951) | \$ 11,692 | \$ | (12,443) | |
| State | 279 | (5,949) | | (547) | |
| Foreign | 42,085 | 29,428 | | 6,826 | |
| | 27,413 | 35,171 | | (6,164) | |
| Deferred: | | | | | |
| Federal | (4,612) | 4,969 | | 22,506 | |
| State | (4,141) | 933 | | 14 | |
| Foreign | (5,642) | (13,207) | | 2,377 | |
| | (14,395) | (7,305) | | 24,897 | |
| Provision (Benefit) for income taxes | \$ 13,018 | \$ 27,866 | \$ | 18,733 | |
| | | | | | |

The provision (benefit) for income taxes differs from the taxes computed with the statutory federal income tax rate as follows:

| | Year Ended October 31, | | | | |
|--|------------------------|----------|----------------|------------|----------|
| | | 2014 | 2013 | | 2012 |
| | | | (in thousands) | | |
| Statutory federal tax | \$ | 95,251 | \$ 96,483 | \$ | 70,397 |
| State tax (benefit), net of federal effect | | (4,306) | (2,697 | ') | 1,078 |
| Tax credits(1) | | (5,153) | (24,972 | 2) | (4,289) |
| Tax on foreign earnings less than U.S. statutory tax | | (56,661) | (36,670 |)) | (21,288) |
| Deferred tax reversal resulting from merger of foreign affiliate | | _ | (6,808 | 3) | _ |
| Tax settlements | | (19,645) | (1,130 |)) | (36,882) |
| Stock based compensation | | 5,675 | 4,671 | | 9,016 |
| Changes in valuation allowance | | (235) | (776 | 5) | 10 |
| Federal statute lapses | | (6,746) | _ | - | _ |
| Other | | 4,838 | (235 | 5) | 691 |
| | \$ | 13,018 | \$ 27,866 | \$ | 18,733 |

(1) As a result of the reinstatement of the federal research and development tax credit in fiscal 2013, the Company reflected a benefit of approximately \$19 million in the above amount for the period January 1, 2012 through October 31, 2013. The federal research tax credit expired on December 31, 2013 resulting in only two months of credit for fiscal 2014.

The significant components of deferred tax assets and liabilities were as follows:

| | October 31, | | | | |
|--|----------------|----|----------|--|--|
| | 2014 | | 2013 | | |
| | (in thousands) | | | | |
| Net deferred tax assets: | | | | | |
| Deferred tax assets: | | | | | |
| Accruals and reserves | \$ 28,608 | \$ | 35,548 | | |
| Deferred revenue | 42,766 | | 36,551 | | |
| Deferred compensation | 56,920 | | 45,662 | | |
| Capitalized costs | 66,616 | | 84,390 | | |
| Capitalized research and development costs | 32,710 | | 36,650 | | |
| Stock compensation | 18,508 | | 16,790 | | |
| Tax loss carryovers | 64,273 | | 63,869 | | |
| Foreign tax credit carryovers | 18,846 | | 13,961 | | |
| Research and other tax credit carryovers | 110,247 | | 108,044 | | |
| Other | 4,689 | | 3,736 | | |
| Gross deferred tax assets | 444,183 | | 445,201 | | |
| Valuation allowance | (45,996) | | (43,374) | | |
| Total deferred tax assets | 398,187 | | 401,827 | | |
| Deferred tax liabilities: | | | | | |
| Intangible assets | 81,218 | | 82,662 | | |
| Undistributed earnings of foreign subsidiaries | 726 | | 11,982 | | |
| Total deferred tax liabilities | 81,944 | | 94,644 | | |
| Net deferred tax assets | \$ 316,243 | \$ | 307,183 | | |

It is more likely than not that the results of future operations will be able to generate sufficient taxable income to realize the net deferred tax assets. The valuation allowance increased by \$2.6 million.

The Company has the following tax loss and credit carryforwards available to offset future income tax liabilities:

| <u>Carryforward</u> | Amount (in thousands) | | Expiration Date |
|---|-----------------------|---------|--------------------|
| Federal net operating loss carryforward | \$ | 162,289 | 2018-2033 |
| Federal research credit carryforward | | 126,649 | 2018-2034 |
| Federal foreign tax credit carryforward | | 13,557 | 2018-2024 |
| International foreign tax credit carryforward | | 10,429 | Indefinite |
| California research credit carryforward | | 131,069 | Indefinite |
| Other state research credit carryforward | | 8,074 | 2015-2034 |
| State net operating loss carryforward | | 159,496 | 2015-2033 |

The federal and state net operating loss carryforward is from acquired companies and the annual use of such loss is subject to significant limitations under Internal Revenue Code Section 382. Foreign tax credits may only be used to offset tax attributable to foreign source income. The federal research tax credit expired as of December 31, 2013.

The Company has unrecognized deferred tax assets of approximately \$70.7 million as of October 31, 2014 attributable to excess tax deductions related to stock options, the benefit of which will be credited to equity when realized.

The Company has not provided taxes for undistributed earnings of its foreign subsidiaries except to the extent that the Company does not plan to reinvest such earnings indefinitely outside the United States. If the cumulative foreign earnings exceed the amount the Company intends to reinvest in foreign countries in the future, the

Company would provide for taxes on such excess amount. As of October 31, 2014, there were approximately \$948.0 million of earnings upon which U.S. income taxes of approximately \$206.0 million have not been provided for.

The gross unrecognized tax benefits increased by approximately \$6.3 million during fiscal 2014 resulting in gross unrecognized tax benefits of \$124.1 million as of October 31, 2014. A reconciliation of the beginning and ending balance of gross unrecognized tax benefits is summarized as follows:

| | As of October 31, 2014 | | As of | October 31, 2013 |
|---|---------------------------|----------|-------|---------------------|
| | (in thousands) | | | |
| Beginning balance | \$ | 117,760 | \$ | 109,680 |
| Increases in unrecognized tax benefits related to prior year tax positions | | 2,037 | | 4,189 |
| Decreases in unrecognized tax benefits related to prior year tax positions | | (23,271) | | (3,328) |
| Increases in unrecognized tax benefits related to current year tax positions | | 35,277 | | 14,128 |
| Decreases in unrecognized tax benefits related to settlements with taxing authorities | | (1,858) | | (4,967) |
| Reductions in unrecognized tax benefits due to lapse of applicable statute of limitations | | (8,816) | | (7,728) |
| Increases in unrecognized tax benefits acquired | | 3,575 | | 5,718 |
| Changes in unrecognized tax benefits due to foreign currency translation | | (602) | | 68 |
| | \$ | 124,102 | \$ | 117,760 |

As of October 31, 2014 and 2013, approximately \$120.5 million and \$117.8 million, respectively, of the unrecognized tax benefits would affect our effective tax rate if recognized upon resolution of the uncertain tax positions.

Interest and penalties related to estimated obligations for tax positions taken in the Company's tax returns are recognized as a component of income tax expense (benefit) in the consolidated statements of operations and totaled approximately \$0.5 million, \$0.2 million and \$(5.8) million for fiscal years 2014, 2013 and 2012, respectively. As of October 31, 2014 and 2013, the combined amount of accrued interest and penalties related to tax positions taken on the Company's tax returns was approximately \$1.3 million and \$0.8 million, respectively.

The timing of the resolution of income tax examinations is highly uncertain as well as the amounts and timing of various tax payments that are part of the settlement process. This could cause large fluctuations in the balance sheet classification of current and non-current assets and liabilities. The Company believes that in the coming 12 months, it is reasonably possible that either certain audits will conclude or the statute of limitations on certain state and foreign income and withholding taxes will expire, or both. Given the uncertainty as to ultimate settlement terms, the timing of payment and the impact of such settlements on other uncertain tax positions, the range of the estimated potential decrease in underlying unrecognized tax benefits is between \$0 and \$25 million.

The Company and/or its subsidiaries remain subject to tax examination in the following jurisdictions:

| <u>Jurisdiction</u> | Year(s) Subject to Examination |
|---------------------------------------|--------------------------------|
| United States—Synopsys | Fiscal 2014 |
| United States—Magma Design Automation | Fiscal years after 2010 |
| California—Synopsys | Fiscal years after 2009 |
| California—Magma Design Automation | Fiscal years after 2010 |
| Hungary | Fiscal years after 2007 |
| Japan | Fiscal years after 2009 |
| Ireland and Taiwan | Fiscal years after 2008 |

In addition, the Company has made acquisitions with operations in several of its significant jurisdictions which may have years subject to examination different from the years indicated in the above table.

IRS Examinations

SYNOPSYS, INC.

In the first quarter of fiscal 2014, the Company reached final settlement with the Examination Division of the IRS on the remaining fiscal 2012 issues and recognized approximately \$10.0 million in unrecognized tax benefits. In the fourth quarter of fiscal 2014, the Company reached final settlement with the IRS for its audit of fiscal 2013 and recognized approximately \$5.5 million in unrecognized tax benefits.

In the third and fourth quarters of fiscal 2013, the Company reached settlement with the IRS for its audit of certain fiscal 2012 issues, which resulted in a decrease in unrecognized tax benefits of \$6.0 million, decrease in deferred tax assets of \$4.9 million and a \$1.1 million net tax benefit.

In the third quarter of fiscal 2012, the Company reached a final settlement with the IRS for its audits of fiscal years 2010 and 2011. As a result of the settlement, the Company's unrecognized tax benefits decreased by \$24.7 million and the impact to other balance sheet tax accounts was not material. The net tax benefit resulting from the settlement was \$15.9 million.

Non-U.S. Examinations

Taiwan

On February 11, 2014 and April 1, 2014, the Company reached settlements with the Taiwan tax authorities for fiscal years 2010 and 2009, respectively, with regard to certain transfer pricing issues. As a result of the settlements and the application of the settlement to other open fiscal years, the Company's unrecognized tax benefits decreased by \$5.1 million. The net tax benefit resulting from the settlements and the application to other open fiscal years was \$3.9 million.

On June 21, 2012, the Company reached a settlement with the Taiwan tax authorities for fiscal 2008 with regard to certain transfer pricing issues. As a result of the settlement and the application of the settlement to other open fiscal years, the Company's unrecognized tax benefits decreased by \$16.5 million. The net tax benefit resulting from the settlement and the application to other open fiscal years was \$14.7 million.

Certain of the Company's income tax returns in Taiwan are under review for fiscal years 2011 through 2013. The Company believes that it has adequately provided for potential tax adjustments, including interest and potential penalties.

Hungary

On March 5, 2012, the Company reached a settlement with the Hungarian tax authorities with regard to its fiscal years 2006 through 2008. The settlement resulted in a \$5.1 million cash payment.

On May 10, 2012 the Company reached a settlement with the Hungarian tax authorities for fiscal years 2009 and 2010. The settlement resulted in a \$6.3 million benefit principally from interest in the second quarter, a \$3.2 million reduction to prepaid taxes in the third quarter, and a cash payment of \$10.9 million in the fourth quarter of fiscal 2012.

The settlements of fiscal years 2006 through 2010 reduced unrecognized tax benefits by \$27.0 million and \$24.2 million in the second and third quarter of fiscal 2012, respectively.

Note 12. Other Income (Expense), Net

The following table presents the components of other income (expense), net:

| Year Ended October 31, | | | | | |
|------------------------|---------|--|---|---|--|
| 2014 | | 2013 | | | 2012 |
| | _ | (in t | housands) | | |
| \$ | 1,302 | \$ | 1,891 | \$ | 1,567 |
| | (1,895) | | (1,696) | | (1,991) |
| | 10,856 | | 18,453 | | 7,498 |
| | 1,195 | | 6,026 | | 1,676 |
| | 11,967 | | 4,499 | | 2,361 |
| \$ | 23,425 | \$ | 29,173 | \$ | 11,111 |
| | \$ | \$ 1,302 (1,895) 10,856 1,195 11,967 | \$ 1,302 \$ (1,895) 10,856 1,195 11,967 | 2014 2013 (in thousands) \$ 1,302 \$ 1,891 (1,696) (1,895) (1,696) 10,856 18,453 1,195 6,026 11,967 4,499 | (in thousands) \$ 1,302 \$ 1,891 \$ (1,895) (1,696) 10,856 18,453 1,195 6,026 11,967 4,499 |

(1) Refer to Note 6. Fair Value Measures.

Note 13. Segment Disclosure

ASC 280, Segment Reporting, requires disclosures of certain information regarding operating segments, products and services, geographic areas of operation and major customers. Segment reporting is based upon the "management approach," i.e., how management organizes the Company's operating segments for which separate financial information is (1) available and (2) evaluated regularly by the Chief Operating Decision Makers (CODMs) in deciding how to allocate resources and in assessing performance. Synopsys' CODMs are the Company's two Co-Chief Executive Officers.

The Company operates in a single segment to provide software products and consulting services in the EDA software industry. In making operating decisions, the CODMs primarily consider consolidated financial information, accompanied by disaggregated information about revenues by geographic region. Specifically, the CODMs consider where individual "seats" or licenses to the Company's products are located in allocating revenue to particular geographic areas. Revenue is defined as revenues from external customers. Goodwill is not allocated since the Company operates in one reportable operating segment. Revenues and property and equipment, net, related to operations in the United States and other by geographic areas were:

| | Year Ended October 31, | | | | | | |
|------------------------------|------------------------|-----------|-----------|------------|-------|-----------|--|
| | 2014 | | 2014 2013 | | | 2012 | |
| | | | (ir | thousands) | | | |
| Revenue: | | | | | | | |
| United States | \$ | 1,020,654 | \$ | 939,749 | \$ | 834,191 | |
| Europe | | 272,911 | | 273,041 | | 225,797 | |
| Japan | | 238,588 | | 264,141 | | 289,420 | |
| Asia Pacific and Other | | 525,319 | | 485,283 | | 406,609 | |
| Consolidated | \$ | 2,057,472 | \$ | 1,962,214 | \$ | 1,756,017 | |
| | | | | | | | |
| | | | | As of Oc | tobe | | |
| | | | | 2014 | | 2013 | |
| | | | | (in tho | ısanı | ds) | |
| Property and Equipment, net: | | | | | | | |
| United States | | | \$ | 181,019 | \$ | 133,310 | |
| Other countries | | | | 68,079 | | 64,290 | |
| Total | | | \$ | 249,098 | \$ | 197,600 | |

Geographic revenue data for multi-regional, multi-product transactions reflect internal allocations and are therefore subject to certain assumptions and to the Company's methodology.

One customer, in the aggregate, accounted for 10.5%, 11.3%, and 10.5% of the Company's consolidated revenue in fiscal 2014, 2013 and 2012, respectively.

Note 14. Effect of New Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2014-09, "Revenue from Contracts with Customers (Topic 606)," which supersedes the revenue recognition requirements in "Revenue Recognition (Topic 605)." This ASU requires an entity to recognize revenue when goods are transferred or services are provided to customers in an amount that reflects the consideration to which the entity expects to be entitled to in exchange for those goods or services. This ASU also requires disclosures enabling users of financial statements to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. The new guidance will be effective for fiscal 2018, including interim periods within that reporting period, using one of two prescribed retrospective methods, and no early adoption is permitted. The Company is currently in the process of evaluating the impact of the adoption of ASU 2014-09 on its consolidated financial statements and related disclosures. The Company has not yet selected a transition method, nor has it determined the effect of the standard on its ongoing financial reporting.

Note 15. Subsequent Events

In December 2014, the Company entered into an accelerated share repurchase agreement (2015 ASR) to repurchase an aggregate of \$180.0 million of the Company's common stock. Pursuant to the 2015 ASR, the Company made a prepayment of \$180.0 million and received an initial share delivery of shares valued at \$144.0 million with an average purchase price of \$43.77 per share. The remaining balance of \$36.0 million will be settled within six months or earlier upon completion of the repurchase. Under the terms of the 2015 ASR, the specific number of shares that the Company ultimately repurchases will be based on the volume weighted average share price of the Company's common stock during the repurchase period, less a discount.

In December 2014, the Company drew down \$250.0 million under the Revolver, primarily to finance the 2015 ASR.

In November 2014, the Company initiated a voluntary retirement program (VRP) and a minimal headcount reduction program. The estimated cost of these programs is approximately \$15 to \$19 million. The VRP program was offered to certain eligible employees in the United States and enrollment for those employees was completed on November 21, 2014.

In November 2014, the Company also changed its time-off policy for U.S. employees. Under the new policy, exempt employees do not accrue paid time off and are not limited to or allotted a specific amount of paid time off. The Company will freeze the earned time off as of January 3, 2015 and the frozen amount will be paid to the employees in two installments in July 2015 and March 2016.

Supplementary Data - Selected Unaudited Quarterly Financial Data

The table below includes certain unaudited financial information for the last eight fiscal quarters. Refer to Note 2 of *Notes to Consolidated Financial Statements* for information on our fiscal year end.

| | Quarter Ended | | | | | | | |
|--|---------------|------------|-------|----------------|-------|-----------------|----|-------------|
| | Ja | anuary 31, | | April 30, | | July 31, | | October 31, |
| | | | (in t | thousands, exc | ept p | per share data) | | |
| 2014 | | | | | | | | |
| Revenue | \$ | 478,951 | \$ | 517,697 | \$ | 521,812 | \$ | 539,012 |
| Gross margin | | 373,102 | | 403,612 | | 406,282 | | 417,591 |
| Income before provision for income taxes | | 71,184 | | 68,059 | | 70,771 | | 62,128 |
| Net income | | 67,696 | | 63,317 | | 65,656 | | 62,455 |
| Net income per share | | | | | | | | |
| Basic | \$ | 0.44 | \$ | 0.41 | \$ | 0.42 | \$ | 0.40 |
| Diluted | | 0.43 | | 0.40 | | 0.42 | | 0.39 |
| 2013 | | | | | | | | |
| Revenue | \$ | 475,137 | \$ | 499,257 | \$ | 482,945 | \$ | 504,875 |
| Gross margin | | 364,074 | | 391,524 | | 367,298 | | 385,766 |
| Income before provision for income taxes | | 71,730 | | 86,707 | | 58,172 | | 59,057 |
| Net income | | 69,922 | | 68,691 | | 52,297 | | 56,890 |
| Net income per share | | | | | | | | |
| Basic | \$ | 0.46 | \$ | 0.45 | \$ | 0.34 | \$ | 0.37 |
| Diluted | | 0.45 | | 0.44 | | 0.33 | | 0.36 |

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Not applicable.

Item 9A. Controls and Procedures

- (a) Evaluation of Disclosure Controls and Procedures. As of October 31, 2014, Synopsys carried out an evaluation under the supervision and with the participation of Synopsys' management, including the Co-Chief Executive Officers and Chief Financial Officer, of the effectiveness of the design and operation of Synopsys' disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act). There are inherent limitations to the effectiveness of any system of disclosure controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable, not absolute, assurance of achieving their control objectives. Our Co-Chief Executive Officers and Chief Financial Officer have concluded that, as of October 31, 2014, Synopsys' disclosure controls and procedures were effective to provide reasonable assurance that information required to be disclosed in the reports Synopsys files and submits under the Exchange Act is recorded, processed, summarized and reported as and when required, and that such information is accumulated and communicated to Synopsys' management, including the Co-Chief Executive Officers and Chief Financial Officer, to allow timely decisions regarding its required disclosure.
- (b) Management's Report on Internal Control Over Financial Reporting. Our management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) for Synopsys.

Under the supervision and with the participation of our management, including our Co-Chief Executive Officers and Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting as of October 31, 2014. We excluded from our evaluation the internal control over financial reporting of Coverity, Inc. (Coverity), which Synopsys acquired on March 24, 2014. This acquisition is discussed in Note 3 of Notes to Consolidated Financial Statements. As of October 31, 2014, Coverity represented, in the aggregate, approximately 1% of consolidated total assets and consolidated total revenue, for the fiscal year ended October 31, 2014.

In assessing the effectiveness of our internal control over financial reporting, our management used the framework established in *Internal Control Integrated Framework (1992)* issued by The Committee of Sponsoring Organizations of the Treadway Commission (COSO). Our management has concluded that, as of October 31, 2014, our internal control over financial reporting was effective based on these criteria. Our independent registered public accounting firm, KPMG LLP, has issued an auditors' report on the effectiveness of our internal control over financial reporting, which is included herein.

(c) Changes in Internal Control Over Financial Reporting. There were no changes in Synopsys' internal control over financial reporting during the fiscal quarter ended October 31, 2014 that have materially affected, or are reasonably likely to materially affect, Synopsys' internal control over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

For information with respect to our executive officers, see *Executive Officers of the Registrant* in Part I, Item 1 of this Annual Report.

All other information required by this Item is incorporated by reference herein from our definitive Proxy Statement for the 2015 Annual Meeting of Stockholders (the Proxy Statement) scheduled to be held on April 2, 2015, provided under the headings "Proposal 1: Election of Directors," "Audit Committee Report," "Corporate Governance," and "Section 16(a) Beneficial Ownership Reporting Compliance."

Item 11. Executive Compensation

The information required by this Item is incorporated herein by reference from the Proxy Statement, provided under the headings "Executive Compensation and Related Information" (and all subheadings thereunder), "Compensation Committee Interlocks and Insider Participation," and "Compensation Committee Report."

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item is incorporated herein by reference from the Proxy Statement, provided under the headings "Equity Compensation Plan Information" and "Security Ownership of Certain Beneficial Owners and Management."

Item 13. Certain Relationships and Related Transactions and Director Independence

The information required by this Item is incorporated herein by reference from the Proxy Statement, provided under the headings "Review, Approval or Ratification of Transactions with Related Persons," "Certain Relationships and Related Transactions," and "Corporate Governance" (under the subheading "Director Independence").

Item 14. Principal Accountant Fees and Services

The information required by this Item is incorporated herein by reference from the Proxy Statement, provided under the heading "Proposal 4: Ratification of Selection of Independent Registered Public Accounting Firm."

PART IV

Item 15. Exhibits and Financial Statement Schedules

- (a) The following documents are filed as part of this Form 10-K:
 - (1) Financial Statements

The following documents are included as Part II, Item 8 of this Form 10-K:

| | <u>Page</u> |
|---|-------------|
| Report of Independent Registered Public Accounting Firm | 45 |
| Consolidated Balance Sheets | 46 |
| Consolidated Statements of Operations | 47 |
| Consolidated Statements of Comprehensive Income | 48 |
| Consolidated Statements of Stockholders' Equity | 49 |
| Consolidated Statements of Cash Flows | 50 |
| Notes to Consolidated Financial Statements | 51 |

- (2) Financial Statement Schedules None.
- (3) Exhibits
 See Item 15(b) below.

(b) Exhibits

EXHIBIT INDEX

| Exhibit | | | _Filed or | | | |
|---------|--|------|-----------|---------|---------------------------------|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 2.1 | Agreement and Plan of Mer ger among Synopsys, Inc., Magma Design Automation, Inc. and Lotus Acquisition Corp. dated November 30, 2011 | 8-K | 000-19807 | 2.1 | 12/1/2011 | |
| 3.1 | Amended and Restated Certificate of Incorporation | 10-Q | 000-19807 | 3.1 | 9/15/2003 | |
| 3.2 | Amended and Restated Bylaws | 8-K | 000-19807 | 3.2 | 5/23/2012 | |
| 4.1 | Specimen Common Stock Certificate | S-1 | 33-45138 | 4.3 | 02/24/92 (effective date) | |
| 10.1 | Form of Indemnification Agreement for directors and executive officers | 8-K | 000-19807 | 99.2 | 7/14/2011 | |
| 10.2 | Director's and Officer's Insurance and Company Reimbursement Policy | S-1 | 33-45138 | 10.2 | 02/24/92 (effective date) | |

| Exhibit | Incorporated By Reference | | | | | Filed or |
|-----------|--|------|-----------|----------|--|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.3 | Lease Agreement, dated August 17, 1990, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The August 17, 1990 Lease") | S-1 | 33-45138 | 10.6 | 02/24/92 (effective date) | |
| 10.3(i) | Amendment No. 1 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.13 | 12/21/2007 | |
| 10.3(ii) | Amendment No. 2 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.3(ii) | 12/20/2012 | |
| 10.3(iii) | Amendment No. 3 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.12 | 12/21/2007 | |
| 10.3(iv) | Amendment No. 4 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.3(iv) | 12/20/2012 | |
| 10.3(v) | Amendment No. 5 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.11 | 12/21/2007 | |
| 10.3(vi) | Amendment No. 6 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.10 | 12/21/2007 | |
| 10.4* | Deferred Compensation Plan as restated effective August 1, 2002 | 10-Q | 000-19807 | 10.5 | 6/10/2004 | |
| 10.5 | Lease Agreement, dated June 16, 1992, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The June 16, 1992 Lease") | 10-K | 000-19807 | 10.15 | Fiscal year ended September 30, 1992 | |
| 10.5(i) | Amendment No. 1 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.5(i) | 12/20/2012 | |
| 10.5(ii) | Amendment No. 2 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.5(ii) | 12/20/2012 | |
| 10.5(iii) | Amendment No. 3 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.15 | 12/21/2007 | |
| 10.5(iv) | Amendment No. 4 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.14 | 12/21/2007 | |

| Exhibit | | | Incorporated E | By Reference | | Filed or |
|-----------|--|------|----------------|--------------|--|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.6 | Lease Agreement, dated June 23, 1993, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The June 23, 1993 Lease") | 10-K | 000-19807 | 10.16 | Fiscal year ended September 30,1993 | |
| 10.6(i) | Amendment No. 1 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.6(i) | 12/20/2012 | |
| 10.6(ii) | Amendment No. 2 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.17 | 12/21/2007 | |
| 10.6(iii) | Amendment No. 3 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.16 | 12/21/2007 | |
| 10.7 | Lease Agreement, dated August 24, 1995, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The August 24, 1995 Lease") | 10-K | 000-19807 | 10.21 | Fiscal year ended September 30, 1995 | |
| 10.7(i) | Amendment No. 1 to The August 24, 1995 Lease | 10-K | 000-19807 | 10.18 | 12/21/2007 | |
| 10.8 | Lease Agreement, dated January 2, 1996 between Synopsys, Inc. and Tarigo-Paul, a California Limited Partnership, ("The January 2, 1996 Lease") | 10-Q | 000-19807 | 10.28 | 5/14/1996 | |
| 10.8(i) | First Amendment to The January 2, 1996 Lease | 8-K | 000-19807 | 10.42 | 9/12/2006 | |
| 10.8(ii) | Second Amendment to The January 2, 1996 Lease | 8-K | 000-19807 | 10.41 | 9/12/2006 | |
| 10.8(iii) | Third Amendment to The January 2, 1996 Lease | 10-K | 000-19807 | 10.8(iii) | 12/20/2012 | |
| 10.8(iv) | Fourth Amendment to The January 2, 1996 Lease | 10-K | 000-19807 | 10.8(iv) | 12/20/2012 | |
| 10.8(v)† | Notification of Change of Ownership of Leased Premises under The January 2, 1996 Lease— Effective September 25, 2012 | 10-K | 000-19807 | 10.8(v) | 12/20/2012 | |

| Exhibit | Incorporated By Reference | | | | | Filed or |
|-----------|--|------|-----------|-----------|-------------|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.9 | Notification of Change of Ownership of Leased Premises—Effective April 25, 2006, notifying Synopsys, Inc. of the change of ownership under multiple leases | 10-K | 000-19807 | 10.20 | 12/21/2007 | |
| 10.10 | Lease Agreement dated October 14, 2011 between Synopsys, Inc. and 690 E. Middlefield Road Fee, LLC, ("The October 14, 2011 Lease") | 10-K | 000-19807 | 10.19 | 12/16/2011 | |
| 10.10(i)† | Notification of Change of Ownership of Leased Premises under The October 14, 2011 Lease— Effective May 9, 2012 | 10-K | 000-19807 | 10.10(i) | 12/20/2012 | |
| 10.10(ii) | First Amendment to The October 14, 2011 Lease | 10-Q | 000-19807 | 10.10(ii) | 3/4/2013 | |
| 10.11* | 1992 Stock Option Plan, as amended and restated | 10-K | 000-19807 | 10.29 | 1/25/2002 | |
| 10.12* | Employee Stock Purchase Plan, as amended | 8-K | 000-19807 | 10.12 | 4/4/2014 | |
| 10.13* | Synopsys Amended and Restated Deferred Compensation Plan II | 10-Q | 000-19807 | 10.23 | 3/9/2009 | |
| 10.14* | 1998 Nonstatutory Stock Option Plan | S-8 | 333-90643 | 10.1 | 11/9/1999 | |
| 10.15 | Amended and Restated Credit Agreement, dated February 17, 2012, among Synopsys as Borrower, the several Lenders from time to time parties thereto, Bank of America, N.A. and Wells Fargo Bank, N.A. as Co- Syndication Agents, HSBC Bank USA, N.A. and Union Bank, N.A. as Co- Documentation Agents, JPMorgan Chase Bank, N.A., as Administrative Agent, and J.P. Morgan Securities LLC, Merrill Lynch, Pierce, Fenner & Smith Incorporated and Wells Fargo Securities, LLC, as Co-Lead Arrangers and Co-Bookrunners | 8-K | 000-19807 | 10.45 | 2/22/2012 | |
| 10.16* | Form of Stock Option Agreement under 1992 Stock Option Plan | 10-K | 000-19807 | 10.27 | 1/12/2005 | |
| 10.17* | Non-Employee Director Compensation Arrangements | 10-K | 000-19807 | 10.27 | 12/17/2010 | |
| 10.18* | 2005 Non-Employee Director Equity Incentive Plan, as amended | 8-K | 000-19807 | 10.19 | 4/4/2014 | |

| Exhibit | | | Incorporated B | y Reference | | _Filed or |
|---------|---|------|----------------|-------------|-------------|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.19* | Synopsys, Inc. 2005 Assumed Stock Option Plan | 8-K | 000-19807 | 10.34 | 9/12/2005 | |
| 10.20* | Form of Amended and Restated Executive Change of Control Severance Benefit Plan | 10-K | 000-19807 | 10.32 | 12/22/2008 | |
| 10.21* | Form of Restricted Stock Grant Notice and Award Agreement under 2005 Non-Employee Directors Equity Incentive Plan | 10-K | 000-19807 | 10.33 | 12/16/2011 | |
| 10.22* | Form of Stock Options Grant Notice and Option Agreement under 2005 Non-Employee Directors Equity Incentive Plan | 10-K | 000-19807 | 10.34 | 12/16/2011 | |
| 10.23* | 2006 Employee Equity Incentive Plan, as amended | 8-K | 000-19807 | 10.24 | 4/4/2014 | |
| 10.24* | Form of Restricted Stock Unit Grant Notice and Award Agreement under 2006 Employee Equity Incentive Plan | | | | | X |
| 10.25* | Form of Notice of Grant of Stock Options and Option Agreement under 2006 Employee Equity Incentive Plan | | | | | X |
| 10.26* | Executive Incentive Plan 162(m) | 8-K | 000-19807 | 10.42 | 1/28/2010 | |
| 10.27* | Amended and Restated Employment Agreement, dated June 2, 2008, between Synopsys, Inc. and Dr. Aart de Geus | 8-K | 000-19807 | 10.50 | 6/3/2008 | |
| 10.28* | Amended and Restated Employment Agreement, dated June 2, 2008, between Synopsys, Inc. and Dr. Chi-Foon Chan | 8-K | 000-19807 | 10.51 | 6/3/2008 | |
| 10.29* | Compensation Recovery Policy | 10-K | 000-19807 | 10.46 | 12/22/2008 | |
| 21.1 | Subsidiaries of Synopsys, Inc. | | | | | X |
| 23.1 | Consent of KPMG LLP, Independent Registered Public Accounting Firm | | | | | X |
| 24.1 | Power of Attorney (see signature page to this Annual Report on Form 10-K) | | | | | Х |

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| 31.1 | Certification of Co-Chief Executive Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act | | | | | X |
| 31.2 | Certification of Co-Chief Executive Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act | | | | | X |
| 31.3 | Certification of Chief Financial Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act | | | | | Χ |
| 32.1 | Certification of Co-Chief Executive Officers and Chief Financial Officer furnished pursuant to Rule 13a-14(b) or Rule 15d-14(b) of the Exchange Act and Section 1350 of Chapter 63 of Title 18 of the United States Code | | | | | X |
| 101.INS | XBRL Instance Document | | | | | Χ |
| 101.SCH | XBRL Taxonomy Extension Schema Document | | | | | Х |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document | | | | | X |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document | | | | | X |
| 101.LAB | XBRL Taxonomy Extension Label Linkbase Document | | | | | X |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document | | | | | X |

^{*} Indicates a management contract, compensatory plan or arrangement.

[†] We have requested confidential treatment for certain portions of this document pursuant to an application for confidential treatment sent to the SEC. We omitted such portions from this filing and filed them separately with the SEC.

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.

SYNOPSYS, INC.

Date: December 12, 2014 By: /s/ Trac Pham

Trac Pham Chief Financial Officer (Principal Financial Officer)

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Aart J. de Geus, Chi-Foon Chan and Trac Pham, and each of them, as his true and lawful attorneys-in-fact and agents, with full power of substitution and reconstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

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

| <u>Name</u> | <u>Title</u> | <u>Date</u> |
|---|---|-------------------|
| /s/ AART J. DE GEUS Aart J. de Geus | Co-Chief Executive Officer (Co- Principal Executive Officer) and Chairman of the Board of Directors | December 12, 2014 |
| /s/ CHI-FOON CHAN Chi-Foon Chan | Co-Chief Executive Officer (Co-Principal Executive Officer), President and Director | December 12, 2014 |
| /s/ TRAC PHAM Trac Pham | Chief Financial Officer (Principal Financial Officer) | December 12, 2014 |
| /s/ Esfandiar Naddaf Esfandiar Naddaf | Vice President, Corporate Controller (Principal Accounting Officer) | December 12, 2014 |
| /s/ ALFRED F. CASTINO Alfred F. Castino | Director | December 12, 2014 |
| /s/ BRUCE R. CHIZEN Bruce R. Chizen | Director | December 12, 2014 |
| /s/ DEBORAH A. COLEMAN Deborah A. Coleman | Director | December 12, 2014 |
| /s/ CHRYSOSTOMOS L. NIKIAS Chrysostomos L. Nikias | Director | December 12, 2014 |
| /s/ JOHN G. SCHWARZ John G. Schwarz | Director | December 12, 2014 |
| /s/ Roy Vallee Roy Vallee | Director | December 12, 2014 |
| /s/ STEVEN C. WALSKE Steven C. Walske | Director | December 12, 2014 |

EXHIBIT INDEX

| Exhibit | | | Filed or | | | |
|-----------|--|------|-----------|----------|---------------------------------|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 2.1 | Agreement and Plan of Mer ger among Synopsys, Inc., Magma Design Automation, Inc. and Lotus Acquisition Corp. dated November 30, 2011 | 8-K | 000-19807 | 2.1 | 12/1/2011 | |
| 3.1 | Amended and Restated Certificate of Incorporation | 10-Q | 000-19807 | 3.1 | 9/15/2003 | |
| 3.2 | Amended and Restated Bylaws | 8-K | 000-19807 | 3.2 | 5/23/2012 | |
| 4.1 | Specimen Common Stock Certificate | S-1 | 33-45138 | 4.3 | 02/24/92 (effective date) | |
| 10.1 | Form of Indemnification Agreement for directors and executive officers | 8-K | 000-19807 | 99.2 | 7/14/2011 | |
| 10.2 | Director's and Officer's Insurance and Company Reimbursement Policy | S-1 | 33-45138 | 10.2 | 02/24/92 (effective date) | |
| 10.3 | Lease Agreement, dated August 17, 1990, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The August 17, 1990 Lease") | S-1 | 33-45138 | 10.6 | 02/24/92 (effective date) | |
| 10.3(i) | Amendment No. 1 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.13 | 12/21/2007 | |
| 10.3(ii) | Amendment No. 2 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.3(ii) | 12/20/2012 | |
| 10.3(iii) | Amendment No. 3 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.12 | 12/21/2007 | |
| 10.3(iv) | Amendment No. 4 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.3(iv) | 12/20/2012 | |
| 10.3(v) | Amendment No. 5 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.11 | 12/21/2007 | |
| 10.3(vi) | Amendment No. 6 to The August 17, 1990 Lease | 10-K | 000-19807 | 10.10 | 12/21/2007 | |
| 10.4* | Deferred Compensation Plan as restated effective August 1, 2002 | 10-Q | 000-19807 | 10.5 | 6/10/2004 | |

| Exhibit | | | Incorporated E | By Reference | | Filed or |
|-----------|--|------|----------------|--------------|--|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.5 | Lease Agreement, dated June 16, 1992, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The June 16, 1992 Lease") | 10-K | 000-19807 | 10.15 | Fiscal year ended September 30, 1992 | |
| 10.5(i) | Amendment No. 1 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.5(i) | 12/20/2012 | |
| 10.5(ii) | Amendment No. 2 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.5(ii) | 12/20/2012 | |
| 10.5(iii) | Amendment No. 3 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.15 | 12/21/2007 | |
| 10.5(iv) | Amendment No. 4 to The June 16, 1992 Lease | 10-K | 000-19807 | 10.14 | 12/21/2007 | |
| 10.6 | Lease Agreement, dated June 23, 1993, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The June 23, 1993 Lease") | 10-K | 000-19807 | 10.16 | Fiscal year ended September 30,1993 | |
| 10.6(i) | Amendment No. 1 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.6(i) | 12/20/2012 | |
| 10.6(ii) | Amendment No. 2 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.17 | 12/21/2007 | |
| 10.6(iii) | Amendment No. 3 to The June 23, 1993 Lease | 10-K | 000-19807 | 10.16 | 12/21/2007 | |
| 10.7 | Lease Agreement, dated August 24, 1995, between Synopsys, Inc. and John Arrillaga, Trustee, or his successor trustee, UTA dated July 20, 1977 (John Arrillaga Separate Property Trust), as amended, and Richard T. Peery, Trustee, or his successor trustee, UTA dated July 20, 1977 (Richard T. Peery Separate Property Trust), as amended, ("The August 24, 1995 Lease") | 10-K | 000-19807 | 10.21 | Fiscal year ended September 30, 1995 | |
| 10.7(i) | Amendment No. 1 to The August 24, 1995 Lease | 10-K | 000-19807 | 10.18 | 12/21/2007 | |

| Exhibit | | | Filed or | | | |
|-----------|--|------|-----------|-----------|-------------|-----------------------|
| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.8 | Lease Agreement, dated January 2, 1996 between Synopsys, Inc. and Tarigo- Paul, a California Limited Partnership, ("The January 2, 1996 Lease") | 10-Q | 000-19807 | 10.28 | 5/14/1996 | |
| 10.8(i) | First Amendment to The January 2, 1996 Lease | 8-K | 000-19807 | 10.42 | 9/12/2006 | |
| 10.8(ii) | Second Amendment to The January 2, 1996 Lease | 8-K | 000-19807 | 10.41 | 9/12/2006 | |
| 10.8(iii) | Third Amendment to The January 2, 1996 Lease | 10-K | 000-19807 | 10.8(iii) | 12/20/2012 | |
| 10.8(iv) | Fourth Amendment to The January 2, 1996 Lease | 10-K | 000-19807 | 10.8(iv) | 12/20/2012 | |
| 10.8(v)† | Notification of Change of Ownership of Leased Premises under The January 2, 1996 Lease— Effective September 25, 2012 | 10-K | 000-19807 | 10.8(v) | 12/20/2012 | |
| 10.9 | Notification of Change of Ownership of Leased Premises—Effective April 25, 2006, notifying Synopsys, Inc. of the change of ownership under multiple leases | 10-K | 000-19807 | 10.20 | 12/21/2007 | |
| 10.10 | Lease Agreement dated October 14, 2011 between Synopsys, Inc. and 690 E. Middlefield Road Fee, LLC, ("The October 14, 2011 Lease") | 10-K | 000-19807 | 10.19 | 12/16/2011 | |
| 10.10(i)† | Notification of Change of Ownership of Leased Premises under The October 14, 2011 Lease— Effective May 9, 2012 | 10-K | 000-19807 | 10.10(i) | 12/20/2012 | |
| 10.10(ii) | First Amendment to The October 14, 2011 Lease | 10-Q | 000-19807 | 10.10(ii) | 3/4/2013 | |
| 10.11* | 1992 Stock Option Plan, as amended and restated | 10-K | 000-19807 | 10.29 | 1/25/2002 | |
| 10.12* | Employee Stock Purchase Plan, as amended | 8-K | 000-19807 | 10.12 | 4/4/2014 | |
| 10.13* | Synopsys Amended and Restated Deferred Compensation Plan II | 10-Q | 000-19807 | 10.23 | 3/9/2009 | |
| 10.14* | 1998 Nonstatutory Stock Option Plan | S-8 | 333-90643 | 10.1 | 11/9/1999 | |

| Exhibit | | Incorporated By Reference | | | Filed or | |
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| Number | Exhibit Description | Form | File No. | Exhibit | Filing Date | Furnished Herewith |
| 10.15 | Amended and Restated Credit Agreement, dated February 17, 2012, among Synopsys as Borrower, the several Lenders from time to time parties thereto, Bank of America, N.A. and Wells Fargo Bank, N.A. as Co- Syndication Agents, HSBC Bank USA, N.A. and Union Bank, N.A. as Co- Documentation Agents, JPMorgan Chase Bank, N.A., as Administrative Agent, and J.P. Morgan Securities LLC, Merrill Lynch, Pierce, Fenner & Smith Incorporated and Wells Fargo Securities, LLC, as Co-Lead Arrangers and Co-Bookrunners | 8-K | 000-19807 | 10.45 | 2/22/2012 | |
| 10.16* | Form of Stock Option Agreement under 1992 Stock Option Plan | 10-K | 000-19807 | 10.27 | 1/12/2005 | |
| 10.17* | Non-Employee Director Compensation Arrangements | 10-K | 000-19807 | 10.27 | 12/17/2010 | |
| 10.18* | 2005 Non-Employee Director Equity Incentive Plan, as amended | 8-K | 000-19807 | 10.19 | 4/4/2014 | |
| 10.19* | Synopsys, Inc. 2005 Assumed Stock Option Plan | 8-K | 000-19807 | 10.34 | 9/12/2005 | |
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| 10.22* | Form of Stock Options Grant Notice and Option Agreement under 2005 Non-Employee Directors Equity Incentive Plan | 10-K | 000-19807 | 10.34 | 12/16/2011 | |
| 10.23* | 2006 Employee Equity Incentive Plan, as amended | 8-K | 000-19807 | 10.24 | 4/4/2014 | |
| 10.24* | Form of Restricted Stock Unit Grant Notice and Award Agreement under 2006 Employee Equity Incentive Plan | | | | | X |

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| 10.25* | Form of Notice of Grant of Stock Options and Option Agreement under 2006 Employee Equity Incentive Plan | | | | | X |
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| 10.29* | Compensation Recovery Policy | 10-K | 000-19807 | 10.46 | 12/22/2008 | |
| 21.1 | Subsidiaries of Synopsys, Inc. | | | | | X |
| 23.1 | Consent of KPMG LLP, Independent Registered Public Accounting Firm | | | | | X |
| 24.1 | Power of Attorney (see signature page to this Annual Report on Form 10-K) | | | | | Χ |
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| 101.INS | XBRL Instance Document | | | | | Χ |
| 101.SCH | XBRL Taxonomy Extension Schema Document | | | | | X |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document | | | | | Χ |

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Indicates a management contract, compensatory plan or arrangement.
 We have requested confidential treatment for certain portions of this document pursuant to an application for confidential treatment sent to the SEC. We omitted such portions from this filing and filed them separately with the SEC.

SYNOPSYS, INC. RESTRICTED STOCK UNIT GRANT NOTICE AND AWARD AGREEMENT (2006 EMPLOYEE EQUITY INCENTIVE PLAN)

Synopsys, Inc. (the "Company"), pursuant to Section 7(b) of the Company's 2006 Employee Equity Incentive Plan (the "Plan"), hereby awards to Participant a Restricted Stock Unit Award covering the number of restricted stock units (the "Restricted Stock Units") set forth below (the "Award"). This Award is subject to all of the terms and conditions as set forth in this Restricted Stock Unit Grant Notice and Award Agreement (such agreement, together with any special terms and conditions for your country, if any, in the Appendix hereto, the "Agreement") and the Plan, which is incorporated by reference herein in its entirety. Defined terms not explicitly defined in this Agreement but defined in the Plan shall have the same definitions as in the Plan.

| Participant: | %%FIRST NAME%-% % |
|--|---------------------------|
| %LAST NAME%-% | |
| ID: | %%EMPLOYEE IDENTIFIER%-% |
| Award Number: | %%OPTION NUMBER%-% |
| Date of Grant: | %%OPTION DATE%-% |
| Vesting Commencement Date: | %%VEST BASE DATE%-% |
| Number of Restricted Stock Units: | %%TOTAL SHARES GRANTED%-% |
| Payment for Common Stock: | Participant's future |
| - | services |

Vesting Schedule: The Restricted Stock Units shall vest in accordance with the following vesting schedule; *provided*, *however*, that the Participant's Continuous Service has not terminated prior to each such vesting date.

| | <u>Units</u> | <u>Vest Type</u> | <u>Full Vest</u> |
|-------|-----------------|------------------------|------------------------|
| %%SHA | ARES_PERIOD1%-% | %%VEST_TYPE_PERIOD1%-% | %%VEST_DATE_PERIOD1%-% |
| %%SHA | ARES_PERIOD2%-% | %%VEST_TYPE_PERIOD2%-% | %%VEST_DATE_PERIOD2%-% |
| %%SHA | ARES_PERIOD3%-% | %%VEST_TYPE_PERIOD3%-% | %%VEST_DATE_PERIOD3%-% |
| %%SHA | ARES_PERIOD4%-% | %%VEST_TYPE_PERIOD4%-% | %%VEST_DATE_PERIOD4%-% |

Delivery Schedule: The Company shall deliver one share of Common Stock for each Restricted Stock Unit that vests on an applicable vesting date, subject to the provisions of Section 3 below and subject to satisfaction of Tax-Related Items as described in Section 10 below. Each installment of Restricted Stock Units that vests hereunder is intended to constitute a "separate payment" for purposes of U.S. Treasury Regulation Section 1.409A-2(b)(2).

Compensation Recovery: The Restricted Stock Units granted herein are subject to the Compensation Recovery Policy applicable to corporate staff, adopted by the Company in December

2008, as amended from time to time (the "Compensation Recovery Policy") and any required compensation recovery provisions under applicable laws or regulations.

Additional Terms/Acknowledgements: Participant acknowledges receipt of, and understands and agrees to, this Agreement, the Plan, the related Plan prospectus, the Company's Insider Trading Policy, the Company's Section 16 Officer and Director Trading Procedures (if applicable) and the Compensation Recovery Policy (if applicable). Participant further acknowledges that as of the Date of Grant, the Agreement and the Plan set forth the entire understanding between the Participant and the Company regarding the award of the Restricted Stock Units and the underlying Common Stock and supersede all prior oral and written agreements on that subject with the exception of (i) Awards previously granted and delivered to Participant under the Plan, and (ii) if applicable to you, (A) the terms of any Company change of control severance plan or provisions that are in effect and applicable at the time of a qualifying termination or event and (B) the Compensation Recovery Policy (if applicable).

ATTACHMENTS: Appendix

The Company has awarded you a Restricted Stock Unit Award (the "*Award*") pursuant to Section 7(b) of the Company's 2006 Employee Equity Incentive Plan (the "*Plan*") for the number of Restricted Stock Units as indicated on the first page of this Agreement. Subject to adjustment and the terms and conditions as provided herein and in the Plan, each Restricted Stock Unit shall represent the right to receive one (1) share of Common Stock.

The terms and conditions of your Award, in addition to those set forth above, are as follows.

1. NUMBER OF RESTRICTED STOCK UNITS AND SHARES OF COMMON STOCK.

- (a) The number of Restricted Stock Units subject to your Award and the number of shares of Common Stock deliverable with respect to such Restricted Stock Units may be adjusted from time to time for Capitalization Adjustments as described in Section 9(a) of the Plan. You shall receive no benefit or adjustment to your Award with respect to any cash dividend or other distribution that does not result in a Capitalization Adjustment pursuant to Section 9(a) of the Plan; *provided, however,* that this sentence shall not apply with respect to any shares of Common Stock that are delivered to you in connection with your Award after such shares have been delivered to you.
- **(b)** Any additional Restricted Stock Units, shares of Common Stock, cash or other property that becomes subject to the Award pursuant to this Section 1 shall be subject, in a manner determined by the Board, to the same forfeiture restrictions, restrictions on transferability, and time and manner of delivery as applicable to the other Restricted Stock Units and Common Stock covered by your Award.
- (c) Notwithstanding the provisions of this Section 1, no fractional Restricted Stock Units or rights for fractional shares of Common Stock shall be created pursuant to this Section 1. The Board shall, in its discretion, determine an equivalent benefit for any fractional Restricted Stock Units or fractional shares that might be created by the adjustments referred to in this Section 1.

2. VESTING.

Subject to the limitations contained in this Agreement and the Plan, the Restricted Stock Units shall vest as provided in the vesting schedule set forth above, provided that vesting shall cease upon the termination of your Continuous Service as determined in accordance with Section 11(g) below. Any Restricted Stock Units that have not yet vested shall be forfeited upon the termination of your Continuous Service.

1. DISTRIBUTION OF SHARES OF COMMON STOCK.

(a) Subject to the provisions of this Agreement and the Plan, in the event one or more Restricted Stock Units vests, the Company shall deliver to you one (1) share of Common Stock for each Restricted Stock Unit that vests, subject to satisfaction of Tax-Related Items as described in Section 10 below. Except as set forth below, the delivery to you of the appropriate

number of vested shares of Common Stock shall be made on the applicable vesting date or as soon as practicably possible thereafter. The issuance date determined by this paragraph is referred to as the "*Issuance Date*." If the Issuance Date falls on a date that is not a business day, delivery shall instead occur on the next following business day. The form of such delivery (*e.g.*, a stock certificate or electronic entry evidencing such shares) shall be determined by the Company.

- Notwithstanding the foregoing, if (i) the Issuance Date does not occur (1) **(b)** during an "open window period" applicable to you, as determined by the Company in accordance with the Company's Insider Trading Policy, or (2) on a date when you are otherwise permitted to sell shares of Common Stock on an established stock exchange or stock market, and (ii) the Company elects, prior to the Issuance Date, (1) not to satisfy the tax withholding obligations described in Section 10 by withholding shares of Common Stock from the shares otherwise due, on the Issuance Date, to you under this Agreement, and (2) not to permit or require you to enter into an immediate sale commitment with a broker-dealer pursuant to Section 10 of this Agreement (including but not limited to a commitment under a previously established Company-approved 10b5-1 trading plan), then such shares shall not be delivered on such Issuance Date and shall instead be delivered on the first business day of the next occurring open window period applicable to you or the next business day when you are not prohibited from selling shares of the Company's Common Stock in the open public market, but in no event later than December 31 of the calendar year in which the Issuance Date occurs (that is, the last day of your taxable year in which the Issuance Date occurs), or, if permitted in a manner that complies with Treasury Regulation Section 1.409A-1(b)(4), in no event later than the date that is the 15th day of the third calendar month of the year following the year in which the shares of Common Stock under this Agreement are no longer subject to a "substantial risk of forfeiture" within the meaning of Treasury Regulation Section 1.409A-1(d).
- 2. PAYMENT BY YOU. Subject to Section 10 below, except as otherwise provided herein or under applicable law, you will not be required to make any payment to the Company with respect to your receipt of the Award, vesting of the Restricted Stock Units, or the delivery of the shares of Common Stock underlying the Restricted Stock Units.
- 3. SECURITIES LAW COMPLIANCE. You may not be issued any Common Stock under your Award unless the shares of Common Stock are either (i) then registered under the U.S. Securities Act of 1933, as amended (the "Securities Act"), or (ii) the Company has determined that such issuance would be exempt from the registration requirements of the Securities Act. Your Award must also comply with other applicable laws and regulations governing the Award, and you shall not receive such Common Stock if the Company determines that such receipt would not be in material compliance with such laws and regulations.
- **4. RESTRICTIVE LEGENDS.** The Common Stock issued under your Award shall be endorsed with appropriate legends, if any, determined by the Company.
- **5. TRANSFER RESTRICTIONS.** Prior to the time that shares of Common Stock have been delivered to you, you may not transfer, pledge, sell or otherwise dispose of the shares in respect of your Award. For example, you may not use shares that may be issued in respect of your Restricted Stock Units as security for a loan, nor may you transfer, pledge, sell or otherwise dispose of such shares. This restriction on transfer will lapse upon delivery to you of shares in respect of

your vested Restricted Stock Units. Your Award is not transferable, except by will or by the laws of descent and distribution. In the event of divorce, you are encouraged to discuss the proposed treatment of the Restricted Stock Units with the Company prior to finalizing any domestic relations order if you reside in the United States.

- 6. AWARD NOT A SERVICE CONTRACT. Your Award is not an employment or service contract, and nothing in your Award shall be deemed to create in any way whatsoever any obligation on your part to continue in the service of the Company or any Affiliate, or on the part of the Company or any Affiliate to continue such service. In addition, nothing in your Award shall obligate the Company or any Affiliate, their respective stockholders, boards of directors or employees to continue any relationship that you might have as an Employee or Consultant of the Company or any Affiliate. Finally, your participation in the Plan shall not create a right to further employment or service with the Employer (as defined in Section 10 below) and shall not interfere with the ability of the Employer to terminate your employment or service relationship at any time with or without cause.
- Restricted Stock Units which vest, you shall be considered an unsecured creditor of the Company with respect to the Company's obligation, if any, to issue Common Stock pursuant to this Agreement. You shall not have voting or any other rights as a stockholder of the Company with respect to the Common Stock acquired pursuant to this Agreement until such Common Stock is issued to you pursuant to Section 3 of this Agreement. Upon such issuance, you will obtain full voting and other rights as a stockholder of the Company with respect to the Common Stock so issued and held by you. Nothing contained in this Agreement, and no action taken pursuant to its provisions, shall create or be construed to create a trust of any kind or a fiduciary relationship between you and the Company or any other person.

8. WITHHOLDING OBLIGATIONS.

You acknowledge that, regardless of any action the Company, or your (a) employer, if different from the Company (whether current or former, the "Employer") takes with respect to Tax-Related Items, the ultimate liability for any or all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related withholding related to your participation in the Plan and legally applicable to you ("Tax-Related Items") is and remains your responsibility and may exceed the amount actually withheld by the Employer. You further acknowledge that the Employer (1) makes no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Award, including the grant, vesting or settlement of the Award, the subsequent sale of shares delivered pursuant thereto and the receipt of any dividends; and (2) does not commit to structure the terms of the grant or any aspect of the Award to reduce or eliminate your liability for Tax-Related Items or achieve any particular tax result. Further, if you are or become subject to tax in more than one jurisdiction between the Date of Grant and the date of any relevant taxable event or tax withholding even, as applicable, you acknowledge that the Employer may be required to withhold, account for, and/or otherwise cause you to tender a payment to the Employer in the amount of the Tax-Related Items arising in each jurisdiction.

- **(b)** On or before the time you receive a distribution of Common Stock pursuant to your Award, or at any time thereafter as requested by the Company, you hereby agree to make adequate arrangements satisfactory to the Company and/or the Employer to satisfy all Tax-Related Items. In this regard, you hereby authorize the Employer or its respective agents, at their discretion, to withhold all applicable Tax-Related Items by one or a combination of the following: (1) withholding in shares of Common Stock issuable to you upon vesting of the Restricted Stock Units, the number of which shall be determined to comply with appropriate tax laws and as would be otherwise necessary or desirable; or (2) withholding from your wages or other cash compensation paid to you by the Employer and/or the Company; or (3) withholding from the proceeds of the sale of shares of Common Stock acquired upon vesting of the Restricted Stock Units, either through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization without further consent) or a voluntary sale (including permitting or requiring you to enter into an immediate sale commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority). Notwithstanding that the Appendix for your country may specify a particular method by which the Company or the Employer intends to recover the Tax-Related Items from you, the Company reserves the right to recover Tax-Related Items by any of the methods set forth in Section 10 of this Agreement, except that if you are an executive or director within the meaning of Section 16 of the Exchange Act and the regulations thereunder, Tax-Related Items shall be recovered by withholding in shares of Common Stock as described in this Section 10(b)(1) above.
- (c) Depending on the withholding method, the Company may withhold or account for Tax-Related Items by considering applicable minimum statutory withholding rates or other applicable withholding rates, including maximum applicable rates, in which case you will receive a refund of any over-withheld amount in cash and will have no entitlement to the Common Stock equivalent. If the obligation for the Tax-Related Items is satisfied by withholding in shares of Common Stock, then you will be deemed to have been issued the full number of shares of Common Stock subject to the vested Restricted Stock Units, notwithstanding that a number of the shares are held back solely for the purpose of paying Tax-Related Items. You will have no further rights, title or interests in or to the number of shares of Common Stock that are held back solely for the purpose of paying the Tax-Related Items.
- (d) You shall pay to the Employer any amount of Tax-Related Items that the Company or the Employer may be required to withhold as a result of your receipt of the Award and/or the shares issuable pursuant thereto that cannot be satisfied by the means previously described. Unless the tax withholding obligations of the Company and/or the Employer are satisfied, the Company shall have no obligation to deliver to you any Common Stock or the proceeds from any sale of the shares of Common Stock.
- **(e)** Finally, in the event the Company's obligation to withhold arises prior to the delivery to you of Common Stock or it is determined after the delivery of Common Stock to you that the amount of the Company's withholding obligation was greater than the amount withheld by the Company, you agree to indemnify and hold the Company harmless from any failure by the Company to withhold the proper amount.

- **9. NATURE OF GRANT.** In accepting this Award, you acknowledge, understand and agree that:
- (a) the Plan is established voluntarily by the Company, is discretionary in nature, and may be modified, amended, suspended or terminated by the Company as provided in the Plan;
- **(b)** the grant of the Award and any other awards under the Plan is voluntary and occasional and does not create any contractual or other right to receive Awards, shares or any other benefit or compensation in lieu of future Awards, even if awards have been granted in the past;
- (c) all decisions with respect to future awards, if any, will be at the sole discretion of the Company;
 - (d) you are voluntarily participating in the Plan;
- **(e)** the Award and the shares of Common Stock subject to the Award are not intended to replace any pension rights or compensation;
- (f) the Award and the shares deliverable thereunder is not paid in lieu of any normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, end of service payments, bonuses, long-service awards, life or accident insurance benefits, pension or retirement benefits or similar payments;
- **(g)** for purposes of the Award, your Continuous Service will be considered terminated as of the date determined by the Company in its sole discretion;
- **(h)** the future value of the shares underlying the Award is unknown and cannot be predicted;
- (i) you understand that should you die owning shares of Common Stock or the Award, such shares or the Award may subject your estate to United States federal estate taxes. You understand that you should seek your own tax advice regarding this potential tax;
- (j) you disclaim any entitlement to compensation or damages arising from the termination of the Award, including as the result of termination of your Continuous Service with the Employer (for any reason whatsoever, whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or providing services or the terms of any employment or service agreement), or diminution in value of the shares of Common Stock, and in consideration of the grant of the Award to which you are not otherwise entitled, you hereby agree not to bring any claim against the Company, the Employer and any Affiliate, irrevocably waive your ability, if any, to bring such claim, and release the Company, the Employer and any Affiliate from any such claim that may be allowed by a court of competent jurisdiction;
- (k) the Plan and this Agreement set forth the entire understanding between you, the Company, the Employer, and any Affiliate thereof regarding the acquisition of the shares of Common Stock and supersede all prior oral and written agreements pertaining to the Award; and

- (I) the following provisions apply only if you are providing services outside the United States:
- (i) the Award and the shares of Common Stock subject to the Award, and the value and income of same, are extraordinary items that are not part of normal or expected compensation for any purpose and are outside the scope of your employment or service contract, if any; and
- (ii) neither the Company, the Employer nor any Affiliate shall be liable for any foreign exchange rate fluctuation between your local currency and the United States Dollar that may affect the value of the Award or of any amounts due to you pursuant to the vesting of the Award or the subsequent sale of any shares of Common Stock acquired upon vesting.

10. DATA PRIVACY.

- (a) You hereby explicitly, voluntarily and unambiguously consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this document by and among, as applicable, the Company, the Employer or any Affiliate for the exclusive purpose of implementing, administering and managing your participation in the Plan.
- You understand that the Company and the Employer may hold certain personal information about you, including, but not limited to, your name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any shares of stock or directorships held in the Company, details of all awards or any other entitlement to shares of stock awarded, canceled, settled, vested, unvested or outstanding in your favor (the "Personal Data"), for the purpose of implementing, administering and managing the Plan. You understand that Personal Data may be transferred to E*Trade Securities LLC or any other third parties assisting in the implementation, administration and management of the Plan, that these recipients may be located in the United States or elsewhere, and that the recipient's country may have different data privacy laws and protections than your country. You understand that you may request a list with the names and addresses of any potential recipients of the Personal Data by contacting your local human resources representative. You authorize the recipients to receive, possess, use, retain and transfer the Personal Data, in electronic or other form, for the purposes of implementing, administering and managing your participation in the Plan, including any requisite transfer of such Personal Data as may be required to a broker or other third party with whom you may elect to deposit any shares of stock acquired upon exercise of the Award. You understand that Personal Data will be held only as long as is necessary to implement, administer and manage your participation in the Plan. You understand that you may, at any time, view the Personal Data, request additional information about the storage and processing of the Personal Data, request any necessary amendments to the Personal Data or refuse or withdraw the consents herein, in any case without cost, by contacting in writing your local human resources representative. If you do not consent or later seek to revoke your consent, your employment status or service or career with the Employer will not be adversely affected. You understand, however, that refusing or withdrawing your consent may affect your ability to hold the Award and participate in the Plan. For more information on

the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact your local human resources representative.

11. NOTICES. Any notices provided for in your Award or the Plan shall be given in writing to each of the other parties hereto and shall be deemed effectively given on the earlier of (i) the date of personal delivery, including delivery by express courier, (ii) the date that electronic notice is sent by you or Shareholder Services (as applicable), in the case of notices provided by electronic means, or (iii) the date that is five (5) days after deposit in the United States Post Office (whether or not actually received by the addressee), by registered or certified mail with postage and fees prepaid, addressed at the following addresses, or at such other address(es) as a party may designate by ten (10) days' advance written notice to each of the other parties hereto:

COMPANY: Synopsys, Inc.

Shareholder Services

700 East Middlefield Road Mountain View, CA 94043 United States of America

PARTICIPANT: Your address as on file with the Company at the time notice is

given

- **12. HEADINGS.** The headings of the Sections in this Agreement are inserted for convenience only and shall not be deemed to constitute a part of this Agreement or to affect the meaning of this Agreement.
- a writing (including an electronic writing) which specifically states that it is amending this Agreement, so long as a copy of such amendment is delivered to you, and provided that no such amendment impairing your rights hereunder may be made without your written consent. Without limiting the foregoing, the Company reserves the right to change, by written notice (including via electronic delivery) to you, the provisions of this Agreement in any way it may deem necessary or advisable to carry out the purpose of the grant as a result of any change in applicable laws or regulations or any future law, regulation, ruling, or judicial decision, provided that any such change shall be applicable only to rights relating to that portion of the Award which is then subject to restrictions as provided herein.

14. MISCELLANEOUS.

- (a) The rights and obligations of the Company under your Award shall be transferable by the Company to any one or more persons or entities, and all covenants and agreements hereunder shall inure to the benefit of, and be enforceable by the Company's successors and assigns.
- **(b)** All obligations of the Company under the Plan and this Agreement shall be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase, merger, consolidation, or otherwise, of all or substantially all of the business and/or assets of the Company.

- (c) You agree upon request to execute any further documents or instruments necessary or desirable in the sole determination of the Company to carry out the purposes or intent of your Award.
- (d) You acknowledge and agree that you have reviewed your Award in its entirety, have had an opportunity to obtain the advice of counsel prior to executing and accepting your Award and fully understand all provisions of your Award.
- **(e)** This Agreement shall be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.
- (f) The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Plan, or your acquisition or sale of the underlying shares of Common Stock. You are hereby advised to consult with your own personal tax, legal and financial advisors regarding your participation in the Plan before taking any action related to the Plan.
- **(g)** If you have received this or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.
- **(h)** The Company reserves the right to impose other requirements on your participation in the Plan, on the Award and on any shares of Common Stock acquired under the Plan, to the extent the Company determines it is necessary or advisable in order to comply with local law or facilitate the administration of the Plan, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.
- 15. GOVERNING PLAN DOCUMENT. Your Award is subject to all the provisions of the Plan, the provisions of which are hereby made a part of your Award, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of your Award and those of the Plan, the provisions of the Plan shall control; *provided, however*, that Section 3 of this Agreement shall govern the timing of any distribution of Common Stock under your Award. The Company shall have the power to interpret the Plan and this Agreement and to adopt such rules for the administration, interpretation, and application of the Plan as are consistent therewith and to interpret or revoke any such rules. All actions taken and all interpretations and determinations made by the Board shall be final and binding upon you, the Company, and all other interested persons. No member of the Board shall be personally liable for any action, determination, or interpretation made in good faith with respect to the Plan or this Agreement.
- APPENDIX. Notwithstanding any provisions in this Agreement, the Award shall be subject to the special terms and conditions set forth in the Appendix to this Agreement for jurisdictions in which you are subject to the applicable laws. Moreover, if you relocate to one of the countries included in the Appendix or otherwise become subject to the laws of such jurisdiction, the special terms and conditions for such country will apply to you, to the extent the Company

determines that the application of such terms and conditions is necessary or advisable in order to comply with local law or facilitate the administration of the Plan. The Appendix constitutes part of this Agreement.

- 17. EFFECT ON OTHER EMPLOYEE BENEFIT PLANS. The value of the Award subject to this Agreement shall not be included as compensation, earnings, salaries, or other similar terms used when calculating benefits under any employee benefit plan sponsored by the Company or any Affiliate.
- 18. CHOICE OF LAW AND VENUE. The interpretation, performance and enforcement of this Agreement shall be governed by the law of the state of Delaware without regard to such state's conflicts of laws rules. For purposes of litigating any dispute that arises directly or indirectly from the relationship of the parties evidenced by this Award or the Agreement, the parties hereby submit to and consent to the sole and exclusive jurisdiction of the courts of the State of California and agree that such litigation shall be conducted only in the courts of Santa Clara, California, or the federal courts for the United States for the Northern District of California.
- by any court or governmental authority to be unlawful or invalid, such unlawfulness or invalidity shall not invalidate any portion of this Agreement or the Plan not declared to be unlawful or invalid. Any Section of this Agreement (or part of such a Section) so declared to be unlawful or invalid shall, if possible, be construed in a manner which will give effect to the terms of such Section or part of a Section to the fullest extent possible while remaining lawful and valid.
- **20. OTHER DOCUMENTS**. You hereby acknowledge receipt or the right to receive a document providing the information (such as public filings) required by Rule 428(b)(1) promulgated under the Securities Act.
- 21. **ELECTRONIC DELIVERY**. The Company may, in its sole discretion, decide to deliver any documents related to the Award granted hereunder or to participation in the Plan (or future restricted stock units or other equity awards that may be granted under the Plan) by electronic means (including by filing documents publicly with at www.sec.gov or any successor website thereto) or to request your consent to participate in the Plan by electronic means. You hereby consent to receive such documents by electronic delivery and, if requested, agree to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company. Electronic delivery may include the delivery of a link to a Company intranet or the internet site of a third party involved in administering the Plan, the delivery of the document via e-mail or such other delivery determined at the Company's discretion. You acknowledge that you may receive from the Company a paper copy of any documents delivered electronically at no cost if you contact the Company by telephone, through a postal service or electronic mail. You further acknowledge that you will be provided with a paper copy of any documents delivered electronically if electronic delivery fails; similarly, you understand that you must provide on request to the Company or any designated third party a paper copy of any documents delivered electronically if electronic delivery fails. Also, you understand that your consent may be revoked or changed, including any change in the electronic mail address to which documents are

delivered (if you have provided an electronic mail address), at any time by notifying the Company of such revised or revoked consent by telephone, postal service or electronic mail.

* * * * *

Your signature below or online acceptance (where permitted) indicates that you have read this Agreement (including any appendices hereto) and agree to be bound by the terms and conditions of the Plan and this Agreement.

| | Synopsys, Inc. | Participant |
|-----|------------------------|--------------------------------|
| By: | | |
| | | %%FIRST_NAME%-% %%LAST_NAME%-% |
| | Title: | Date: |
| | Date: %%OPTION DATE%-% | |

Appendix

Synopsys, Inc. Restricted Stock Unit Grant Notice and Award Agreement

This Appendix, which is part of the Restricted Stock Unit Grant Notice and Award Agreement, contains the additional terms and conditions of the Restricted Stock Units that will apply to Participants in the countries listed below. If you are a citizen or resident of a country other than the one in which you currently are working, you transfer employment and/or residency to another country after the Award is granted or you are considered a resident of another country for local law purposes, the Company shall, in its sole discretion, determine to what extent the terms and conditions included herein will apply under these circumstances. Capitalized terms used but not defined herein shall have the same meanings assigned to them in the Plan and/or the Agreement.

Belgium

There are no country-specific terms or conditions.

Canada

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

<u>Settlement in Shares</u>. Notwithstanding any discretion contained in the Plan to settle the Award in cash, due to tax laws considerations in Canada, Restricted Stock Units will be settled in shares of Common Stock only and do not provide any right for you to receive a cash payment.

Finland

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

France

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this

authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

<u>Consent to Receive Information in English</u>. By accepting the Restricted Stock Units, you confirm having read and understood the Plan and Agreement, including all terms and conditions included therein, which were provided in the English language. You accept the terms of those documents accordingly.

En acceptant les Restricted Stock Units, vous confirmez avoir lu et compris le Plan and le Contrat y relatifs, incluant leurs termes et conditions, qui ont été transmis en langue anglaise. Vous acceptez les dispositions de ces documents en connaissance de cause.

Germany

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

Hong Kong

Securities Warning. In accepting the Award, you understand and acknowledge that the Restricted Stock Units and any shares of Common Stock issued at vesting of the Restricted Stock Units do not constitute a public offering of securities under Hong Kong law and are available only to employees and consultants of the Company and its Affiliates. The Agreement, including this Appendix, the Plan and other incidental communication materials have not been prepared in accordance with and are not intended to constitute a "prospectus" for a public offering of securities under the applicable securities legislation in Hong Kong, nor have the documents been reviewed by any regulatory authority in Hong Kong. The Restricted Stock Units and any related documentation are intended only for your personal use and may not be distributed to any other person. If you are in any doubt about any of the contents of the Agreement, including this Appendix, or the Plan, you should obtain independent professional advice.

<u>Settlement in Shares</u>. Notwithstanding any discretion contained in the Plan to settle the Award in cash, due to tax law considerations in Hong Kong, the Restricted Stock Units shall be settled in shares of Common Stock only and do not provide any right for you to receive a cash payment.

<u>Sale of Shares</u>. If the Restricted Stock Units vest within six months of the Date of Grant, you agree that you will not dispose of the shares of Common Stock acquired prior to the six-month anniversary of the Date of Grant.

Hungary

There are no country-specific terms or conditions.

India

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

The Employer will withhold any Tax-Related Items from your wages when your Award vests.

Ireland

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

Israel

<u>Trust Arrangement</u>. You understand and agree that the Restricted Stock Units are granted subject to and in accordance with the Synopsys, Inc. 2006 Employee Equity Incentive Plan Israeli Subplan (the "Subplan"), the trust deed between the Company and ESOP Management and Trust Services Ltd. or any successor trustee (the "Trustee"), the Confirmation Letter -- Trustee 102 Awards, the Agreement and the Plan. You further understand and agree that the Restricted Stock Units and any shares of Common Stock issued upon vesting of the Restricted Stock Units are intended to qualify for the favorable tax treatment available in Israel pursuant to the provisions of the 102 Capital Gains Track (as defined in the Subplan). The Company does not make any undertaking or representation to maintain the qualified status of the Restricted Stock Units. In the event of any inconsistencies between the Subplan, the Agreement and/or the Plan, you agree that the Subplan will govern the Restricted Stock Units granted to you in Israel.

If you have not already signed the Confirmation Letter -- Trustee 102 Awards provided by ESOP Management and Trust Services Ltd. or the Employer in connection with grants made under the Subplan, then you must print, sign and deliver the signed copy of the Confirmation Letter within 90 days to ESOP Management and Trustee Services Ltd. by email to esop-helpdesk@esop.co.il or by fax to 972-3-7602632. If you deliver your signed Confirmation Letter by fax, you should confirm receipt by contacting ESOP Management and Trust Services Ltd. by email at esop-helpdesk@esop.co.il or by phone at 1700-70-3767. If the Trustee does not receive the signed Confirmation Letter within 90 days, the Restricted Stock Units may not qualify for the favorable tax treatment under Section 102.

<u>Distribution of Shares of Common Stock & Transfer Restrictions</u>. This provision supplements Section 3 and Section 7 of the Agreement:

To receive the favorable tax treatment provided for in Section 102, the Restricted Stock Units and the shares of Common Stock issued upon vesting of the Restricted Stock Units will be held or controlled by the Trustee, pursuant to the terms of the trust deed, for your benefit, during the Required Holding Period (as defined in the Subplan), which, until further election by the Company, shall be twenty-four (24) months from the Date of Grant, or any other period determined under the ITO (as defined in the Subplan) as now in effect or as hereafter amended or determined by the Israeli Income Tax Authority. You may still access your Restricted Stock Units and sell shares of Common Stock through your account with the Company's designated broker, subject to the terms set forth in this Appendix. You hereby understand and agree you will not require the Company's designated broker or the Trustee to release or sell the shares of Common Stock during the Required Holding Period. After the Required Holding Period has expired, the shares of Common Stock issued at vesting of the Restricted Stock Units will continue to be held by the Trustee until the earlier of (i) the receipt by the Trustee of an acknowledgment from the Israeli Income Tax Authority that you have paid all applicable taxes due pursuant to the ITO and Section 102, or (ii) the Trustee withholds any applicable tax due pursuant to the ITO and Section 102. Notwithstanding the above, if any release or sale of shares of Common Stock occurs during the Required Holding Period, the tax consequences under Section 102 shall apply to and shall be borne solely by you.

<u>Securities Law Exemption</u>. An exemption from the requirement to file a prospectus with respect to the Plan has been granted to the Company by the Israeli Securities Authority. Copies of the Plan and Form S-8 registration statement for the Plan file with the United States Securities and Exchange Commission are available free of charge upon request at your local HR department.

Italy

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

<u>Data Privacy</u>. The following provision replaces Section 12 of the Agreement:

You hereby acknowledge that your personal data is collected, used, processed and transferred outside of the European Union, as described in this Agreement by and among, as applicable, the Employer, the Company and any Affiliate for the exclusive purpose of implementing, administering and managing your participation in the Plan. You understand that the Employer and/or the Company hold certain personal information about you, including, but not limited to, your name, home address and telephone number, date of birth, national insurance number or other identification number, salary, nationality, job title, any shares of Common Stock or directorships held in the Company, details of all Restricted Stock Units or other entitlement to shares of Common Stock awarded, canceled, exercised, vested, unvested or outstanding in your favor, for the purpose of implementing, administering and managing the Plan ("Data").

You are aware that providing the Company with the Data is necessary for the performance of this Agreement and that your refusal to provide the Data would make it impossible for the Company to perform its contractual obligations and may impact your ability to vest in or realize benefits from the Restricted Stock Units. Your Data shall be accessible within the Company's organization only by the persons specifically charged with Data-processing operations and by the persons that need to access the Data because of their duties and position in relation to the performance of the contract. The Controller of personal data-processing is the Company, with registered offices at 700 East Middlefield Road, Mountain View, CA 94043, U.S.A., and, pursuant to Legislative Decree no. 196/2003, its representative in Italy is Synopsys Italia S.r.l. with registered offices at Centro Direzionale Colleoni, Viale Colleoni 11 - Palazzo Sirio 3, 20041 Agrate Brianza (MI), Italy.

You understand that Data will be transferred to E*Trade Securities LLC and/or to such other stock plan service provider as may be selected by the Company, which are assisting the Company with the implementation, administration and management of the Plan and that Data may be transferred to certain other third parties assisting in the implementation, administration and management of the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom you may elect to deposit any shares of Common Stock acquired upon vesting of the Restricted Stock Units. You understand that these recipients, which may receive, possess, use, retain and transfer such Data for the above-mentioned purposes, may be located in the United States, or elsewhere, including outside of the European Economic Area, and that the recipient's country may have different data privacy laws and protections than your country. The processing activity, including transfer of Data abroad, including outside of the European Economic Area, as herein specified and pursuant to applicable laws and regulations, does not require your consent thereto as the processing is necessary to performance of contractual obligations related to the implementation, administration and management of the Plan.

You understand that Data-processing relating to the purposes above specified shall take place under automated or non-automated conditions, anonymously when possible, that comply with the purposes for which Data is collected and with confidentiality and security provisions as set forth by applicable laws and regulations, with specific reference to Legislative Decree no. 196/2003. You understand that Data will be held only as long as is required by the law or is necessary to implement, administer and manage your participation in the Plan. You understand that, pursuant to Article 7 of Legislative Decree No. 196/2003, you have the right, without limitation, to access, delete, update, request the rectification of your Data and cease, for legitimate reasons, the Data-processing. Furthermore, you are aware that the Data will not be used for direct marketing purposes. In addition, the Data provided can be reviewed and questions or complaints can be addressed by contacting your local HR representative.

Plan Document Acknowledgment. By accepting the Restricted Stock Units, you acknowledge that you have received a copy of the Plan and the Agreement and have reviewed the Plan and the Agreement, including this Appendix, in their entirety and fully understand and accept all provisions of the Plan and the Agreement, including this Appendix.

You further acknowledge that you have read, understand and specifically and expressly accept the following sections of the Agreement: Section 2: Vesting; Section 3: Distribution of Shares of Common Stock; Section 7: Transfer Restrictions; Section 8: Award Not a Service Contract; Section 10: Withholding Obligations; Section 11: Nature of Grant, Section 16: Miscellaneous; Section 20: Choice of Law; and the Data Privacy provisions set forth above.

Japan

There are no country-specific terms or conditions.

Korea

There are no country-specific terms or conditions.

Netherlands

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

People's Republic of China

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

Due to local regulatory requirements, upon the vesting of your Restricted Stock Units, any shares of Common Stock to be issued to you upon vesting and settlement of the Restricted Stock Units will be immediately sold. You agree that the Company is authorized to instruct its designated broker to assist with the mandatory sale of such shares (on your behalf pursuant to this authorization) and you expressly authorize the Company's designated broker to complete the sale of such shares. You acknowledge that the Company's designated broker is under no obligation to arrange for the sale of the shares at any particular price. Upon the sale of the shares, the Company agrees to pay you the cash proceeds from the sale, less any brokerage fees or commissions and subject to any obligation to satisfy Tax-Related Items.

Exchange Control Requirements. You understand and agree that, pursuant to local exchange control requirements, you will be required to repatriate the cash proceeds from the immediate sale of the shares issued upon the vesting of the Restricted Stock Units to the PRC if you are a PRC national or are otherwise determined to be subject to the requirements imposed by the State Administration of Foreign Exchange as determined by the Company. You further understand that, under local law, the sale proceeds will need to be repatriated through a special exchange control account established by an Affiliate in the PRC and you hereby consent and agree that any proceeds from the sale of any Restricted Stock Units you acquire may be transferred to such special account

prior to being delivered to you. You further agree to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in the PRC.

You further understand and agree that the Company may distribute the proceeds of the sale of shares either in U.S. dollars or in local currency. If the proceeds are distributed in local currency, the Company is under no obligation to secure any particular exchange conversion rate and there will be delays in converting the cash proceeds to local currency due to exchange control restrictions. You agree to bear any currency fluctuation risk between the time the shares are sold and the time the cash proceeds are distributed to you through the special account described above.

Singapore

There are no country-specific terms or conditions.

Sweden

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

A number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

Switzerland

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

For all Permit B holders and any cross border employees subject to withholding at source, a number of shares of Common Stock sufficient to cover any Tax-Related Items that the Company or the Employer is required to withhold will automatically be sold (on your behalf pursuant to this authorization) when your Award vests. You will receive the net shares remaining after such withholding obligations and any broker fees and commissions have been satisfied.

Taiwan

There are no country-specific terms or conditions.

United Kingdom

Vesting. The following provision supplements Section 1 of the Agreement:

Notwithstanding any discretion or anything to the contrary in the Plan and/or the Agreement, the grant of the Restricted Stock Units does not provide any right for you to receive a cash payment and the vested Restricted Stock Units will be settled in shares only.

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

If you do not pay or the Company or the Employer does not withhold from you the full amount of income tax that you owe within ninety (90) days of the event giving rise to the Tax-Related Items (the "Due Date") or such other period specified in Section 222(1)(c) of the U.K. Income Tax (Earnings and Pensions) Act 2003, the amount of any uncollected Tax-Related Items will constitute a loan owed by you to the Employer, effective on the Due Date. You agree that the loan will bear interest at the then-current official rate of Her Majesty's Revenue and Customs ("HMRC"), it will be immediately due and repayable, and the Company or the Employer may recover it at any time thereafter by any of the means referred to in Section 10 of the Agreement. Notwithstanding the foregoing, if you are a director or executive officer of the Company (within the meaning of Section 13(k) of the U.S. Securities and Exchange Act of 1934, as amended), you will not be eligible for such a loan to cover the Tax-Related Items. In the event that you are a director or executive officer and the Tax-Related Items are not collected from or paid by you by the Due Date, the amount of any uncollected Tax-Related Items will constitute a benefit to you on which additional income tax and national insurance contributions may be payable. You will be responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for reimbursing the Company or the Employer, as applicable, for the value of any employee national insurance contributions due on this additional benefit, which the Company or the Employer may recover at any time thereafter by any of the means in Section 10 of the Agreement.

Joint Election. As a condition of your participation in the Plan, you agree to accept any liability for secondary Class 1 national insurance contributions (the "*Employer's Liability*") which may be payable by the Company and/or the Employer in connection with the Restricted Stock Units and any event giving rise to Tax-Related Items. Without prejudice to the foregoing, you agree to execute a joint election with the Company (the "*Joint Election*") prior to vesting of the Restricted Stock Units, the form of such Joint Election being formally approved by HMRC and attached hereto as Exhibit A, and any other consent or elections required to accomplish the transfer of the Employer's Liability to you. You further agree to execute such other joint elections as may be required between yourself and any successor to the Company and/or the Employer. You further agree that the Company and/or the Employer may collect the Employer's Liability by any of the means set forth in Section 10 of the Agreement.

If you do not enter into a Joint Election prior to vesting of the Restricted Stock Units, if approval of the Joint Election has been withdrawn by HMRC or if such Joint Election is jointly revoked by you and the Company or the Employer, as applicable, the Company, in its sole discretion and without any liability to the Company or the Employer, may choose not to issue or deliver any shares to you upon vesting of the Restricted Stock Units.

United States

Withholding Obligations. The following provision supplements Section 10 of the Agreement:

Upon vesting of Restricted Stock Units, the Company will issue to you the number of shares covered by the vested Restricted Stock Units, less the number of shares sufficient to cover any Tax-Related Items that the Company is required to withhold.

Exhibit A

(UK Participants)

PLEASE READ THE FOLLOWING IN ITS ENTIRETY BEFORE ACCEPTING YOUR AWARD

SYNOPSYS, INC. 2006 EMPLOYEE EQUITY INCENTIVE PLAN

Important Note on the Joint Election to Transfer Employer National Insurance Contributions

As a condition of your participation in the 2006 Employee Equity Incentive Plan, you are required to enter into a joint election to transfer to you any liability for employer's national insurance contributions (the "*Employer's Liability*") that may arise in connection with your award of stock options and/or restricted stock units (together, the "*Awards*"), or in connection with future Awards that may be granted to you by Synopsys, Inc. (the "*Company*") under its 2006 Employee Equity Incentive Plan (the "*Joint Election*").

If you do not agree to enter into the Joint Election, the Awards will be worthless, you will not be able to exercise the options or vest in the restricted stock units, or receive any benefit in connection with the Awards, as set forth in your Award Agreement.

By entering into the Joint Election:

- I. you agree that any Employer's Liability that may arise in connection with or pursuant to the exercise or vesting of the Award, as applicable (and the acquisition of shares of the Company's common stock) or other taxable events in connection with the Award will be transferred to you; and
- II. you authorise the Company and/or your employer to recover an amount sufficient to cover this liability by any method set forth in the relevant Award Agreement and/or the Joint Election.

Indicating your acceptance of the Option Agreement and/or Restricted Stock Unit Award Agreement, as applicable, indicates your agreement to be bound by the terms of the Joint Election.

Please read the terms of the Joint Election carefully before accepting the Option Agreement and/or the Restricted Stock Unit Award Agreement and the Joint Election.

PLEASE PRINT AND KEEP A COPY OF THIS ELECTION FOR YOUR RECORDS

SYNOPSYS , INC. 2006 EMPLOYEE EQUITY INCENTIVE PLAN

(UK Participants)

FORM OF ELECTION TO TRANSFER THE EMPLOYER'S SECONDARY CLASS 1 NATIONAL INSURANCE LIABILITY TO THE EMPLOYEE

1. <u>Parties</u>

This Election is between:

- (A) You, the individual who has obtained access to this Election (the "Participant"), who is employed by one of the employing companies listed in the attached schedule (the "Employer") and who is eligible to receive stock options ("Options") and/or restricted stock units ("RSUs") (each an "Award" and together, the "Awards") pursuant to the terms and conditions of the Synopsys, Inc. 2006 Employee Equity Incentive Plan (the "Plan"), and
- (B) Synopsys, Inc. of 700 East Middlefield Road, Mountain View, California 94043, United States (the "Company"), which may grant Awards under the Plan and is entering this Election on behalf of the Employer.

1. **Purpose of Election**

- 2.1 This Election relates to the Employer's secondary Class 1 National Insurance Contributions (the "Employer's Liability") which may arise on the occurrence of a "Taxable Event" which gives rise to relevant employment income within section 4(4)(a) and/or paragraph 3B(1A) of Schedule 1 of the Social Security Contributions and Benefits Act 1992 ("SSCBA"), including but not limited to:
 - a. the acquisition of securities pursuant to the Awards (pursuant to section 477(3)(a) ITEPA); and/or
 - b. the assignment or release of the Awards in return for consideration (pursuant to section 477 (3)(b) ITEPA); and/or
 - c. the receipt of any other benefit in connection with the Awards other than a benefit within (i) or (ii) above (pursuant to section 477(3)(c) ITEPA); and/or
 - d. post-acquisition events relating to the Awards or the securities acquired pursuant to the Awards (within section 426 ITEPA); and/or
 - e. post-acquisition events relating to the Awards or the securities acquired pursuant to the Awards (within section 438 ITEPA).

In this Election, ITEPA means the Income Tax (Earnings and Pensions) Act 2003.

- 2.2 This Election is made in accordance with paragraph 3B(1) of Schedule 1 to SSCBA.
- 2.3 This Election applies to all Awards granted to the Participant under the Plan on or after May 22, 2009 up to the termination date of the Plan.
- 2.4 This Election does not apply in relation to any liability, or any part of any liability, arising as a result of regulations being given retrospective effect by virtue of section 4B(2) of either the SSCBA, or the Social Security Contributions and Benefits (Northern Ireland) Act 1992.
- 2.5 This Election will not apply to the extent that it relates to relevant employment income which is employment income of the earner by virtue of Chapter 3A of Part 7 of ITEPA (employment income: securities with artificially depressed market value).

2 The Election

The Participant and the Company jointly elect that the entire liability of the Employer to pay the Employer's Liability on the Taxable Event is hereby transferred to the Participant. The Participant understands that by electronically accepting this Election, he or she will become personally liable for the Employer's Liability covered by this Election.

3 Payment of the Employer's Liability

- 4.1 The Participant and the Company acknowledge that the Employer is under a duty to remit the Employer's Liability to HM Revenue and Customs on behalf of the Participant within 14 days after the end of the UK tax month during which the Taxable Event occurs, or such other period of time, as prescribed. The Participant agrees to pay to the Company and/or the Employer the Employer's Liability on demand, at any time on or after the Taxable Event and hereby authorises the Company and/or the Employer to account for the Employer's Liability to HM Revenue and Customs.
- 4.2 Without limitation to Clause 4.1 above, the Participant hereby authorises the Company and/or the Employer to collect the Employer's Liability from the Participant at any time after the Taxable Event:
 - a. by deduction from salary or any other payment payable to the Participant at any time on or after the date of the Taxable Event; and/or
 - b. directly from the Participant by payment in cash or cleared funds; and/or
 - c. by arranging, on behalf of the Participant, for the sale of some of the securities which the Participant is entitled to receive in respect of the Awards; and/or
 - d. through any other method as set forth in the relevant Award agreement entered into between the Participant and the Company.
- 4.3 The Company hereby reserves for itself and the Employer the right to withhold the transfer of any securities to the Participant until full payment of the Employer's Liability is collected from the Participant.

Duration of Election

- 5.1 The Participant and the Company agree to be bound by the terms of this Election regardless of whether the Participant is transferred abroad or is not employed by the Employer on the date on which the Employer's Liability becomes due. Any reference to the Company, the Employer and/or the Participant shall include that entity's successors in title and assigns as permitted in accordance with the terms of the Plan and Award agreement.
- 5.2 This Election will continue in effect until the earliest of the following:
 - a. such time as both the Participant and the Company agree in writing that it should cease to have effect;
 - b. on the date the Company serves written notice on the Participant terminating its effect;
 - c. on the date HM Revenue and Customs withdraws approval of this Election; or
 - d. on the date the Election ceases to have effect in accordance with its terms in respect of any outstanding Awards granted under the Plan.

Acceptance by THE PARTICIPANT

The Participant acknowledges that by clicking on the "I accept" button where indicated and from that date, the Participant agrees to be bound by the terms of this Election as stated above.

Acceptance by THE COMPANY

The Company acknowledges that by arranging for the scanned signature of an authorised representative to appear on this Election, the Company agrees to be bound by the terms of this Election as stated above.

| SYNOPSYS, INC. | | | | |
|----------------|--------|--|--|--|
| By: | | | | |
| | Title: | | | |

<u>SCHEDULE TO FORM OF ELECTION – EMPLOYING COMPANIES</u>

The employing companies to which this Election relates are:

(1) Synopsys (Northern Europe) Limited

| Registered Office: | 100 Brook Drive |
|------------------------------|-------------------------------|
| | Green Park, Reading |
| | RG2 6UJ |
| | United Kingdom |
| Company Registration Number: | 2642054 |
| Corporation Tax District: | Oxon and Bucks Area |
| Corporation Tax Reference: | 402 56090 10710 |
| PAYE District: | East Hampshire and Wight Area |
| PAYE Reference: | 581/S3033 |

2006 Employee Equity Incentive Plan Notice of Grant of Stock Options and Option Agreement Synopsys, Inc.
ID: 56-1546236
700 Fast Middlefiel

700 East Middlefield Road Mountain View, CA 94043

%%FIRST_NAME%-% %%LAST_NAME %-%

Option Number: %%OPTION_NUMBER

ID: %%EMPLOYEE IDENTIFIER%-%

%%ADDRESS_LINE_1%-%

%%ADDRESS_LINE_2%-%

%%CITY%-%, %%\$TATE%-% %

%ZIPCODE%-%

%%COUNTRY%-%

Effective %%OPTION_DATE%-%, Synopsys, Inc. (the "Company") has granted you a Nonstatutory Stock Option (the "Option") under the 2006 Employee Equity Incentive Plan (the "Plan") to buy %%TOTAL_SHARES_GRANTED%-% shares of the common stock of the Company (the "Common Stock") at an exercise price of %%OPTION_PRICE%-% per share. This Option is subject to all of the terms and conditions set forth in this Notice of Grant of Stock Options and Option Agreement (including any special terms and conditions for your country, if any, in the Appendix hereto, the "Agreement") and the Plan, which is incorporated by reference herein in its entirety. This Option is also subject to the Compensation Recovery Policy applicable to corporate staff, adopted by the Company in December 2008, as amended from time to time (the "Compensation Recovery Policy") and any required compensation recovery provisions under applicable laws or regulations. Capitalized terms not explicitly defined in this Agreement but defined in the Plan shall have the same definitions as in the Plan.

This Option will vest, and may be exercised, in whole or in part, in accordance with the following vesting schedule, subject to your Continuous Service with the Company or any Affiliate.

| Shares | Vest Type | Full Vest | Expiration |
|-------------------------|-----------|------------------------------|-------------------------|
| % | On Vest | % | 0/0 |
| %SHARES_PERIOD1% | Date | | %EXPIRE_DATE_P |
| -% | | OD1%-% | ERIOD 1%-% |
| % | Quarterly | % | % |
| %SHARES_PERIOD2% | | | %EXPIRE_DATE_PE |
| -% | | $\overline{\text{OD2\%-\%}}$ | $RIOD\overline{2}\%-\%$ |

1. Exercise.

(a) <u>Right to Exercise</u>. This Option is exercisable during its term in accordance with the vesting schedule set forth above and the applicable provisions of the Plan and this Agreement. In the event of your death, disability, or other cessation of Continuous Service, the exercisability of the Option is governed by the applicable provisions of the Plan and this Agreement. This Option may not be exercised for a fraction of a Share.

- with the Company's designated broker, which as of the date hereof is E*Trade Securities LLC, unless you are an officer subject to the reporting requirements of Section 16(a) of the U.S. Securities Exchange Act of 1934 (a "Section 16 Officer"). Using your account, you may select the grant to exercise, the number of shares to exercise, the type of exercise (subject to applicable provisions in the Appendix), and, if applicable based on the type of exercise, the sales order for the shares issuable upon exercise. You may sell the Common Stock underlying the Option through your account or you may transfer the shares of Common Stock to your stockbroker (except as provided in the Appendix). If you are a Section 16 Officer, you must exercise your Option in accordance with the Company's Section 16 Officer and Director Trading Procedures. All Option exercises must be made in accordance with the Company's Insider Trading Policy.
- (c) Exercise by Another. If another person wants to exercise this Option after it has been transferred to him or her in accordance with the transferability restrictions provided in the Plan, that person must prove to the Company's satisfaction that he or she is entitled to exercise this Option. That person must also pay the exercise price (as described below) and any applicable tax withholding due upon exercise of the Option (as described below).
- (d) <u>Method of Payment</u>. Payment of the exercise price is due in full upon exercise of all or any part of the Option. Payment of the exercise price may be made in cash or by check or in any other manner permitted in the Plan (except as provided in the Appendix).
- <u>Termination</u>. In the event of termination of your Continuous Service for any (e) reason other than Cause, you will be permitted to exercise the Option to the extent vested at the time of termination for ninety (90) days following your date of termination (except as provided in the Appendix); provided, however, that if your termination is due to death or disability, or if you die within ninety (90) days following your termination without "Cause", the post-termination exercise period is twelve (12) months (except as provided in the Appendix); provided further that if your termination is for "Cause" as defined in the Plan, you shall not be permitted to exercise the Option in any respect. In each case, the date of the termination of your Continuous Service shall be determined in accordance with Section 3(i) below. In addition, if your Option is not exercisable during the applicable post-termination exercise period solely because the shares of Common Stock issuable upon such exercise are not then registered under the Securities Act and are not otherwise issuable under an exemption from the registration requirements of the Securities Act, this Option shall not expire until the earlier of the expiration date set forth above or until it shall have been exercisable for an aggregate period of at least ninety (90) days after the termination of your Continuous Service. You are responsible for keeping track of these exercise periods following your termination of Continuous Service for any reason. The Company will not provide further notice of such periods.
- 2. <u>Responsibility for Taxes</u>. Except as otherwise provided in the Appendix, the provisions of this Section 2 shall apply. You acknowledge that, regardless of any action the Company or your employer (if different from the Company) (the Company or your employer referred to hereinafter as the "*Employer*") takes with respect to any or all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related withholding related to your

participation in the Plan and legally applicable to you ("*Tax-Related Items*"), the ultimate liability for all Tax-Related Items is and remains your responsibility and may exceed the amount actually withheld by the Employer. You further acknowledge that the Employer (1) makes no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Option, including the grant, vesting or exercise of the Option, the subsequent sale of shares acquired pursuant to such exercise and the receipt of any dividends; and (2) does not commit to structure the terms of the grant or any aspect of the Option to reduce or eliminate your liability for Tax-Related Items or achieve any particular tax result. In particular, you acknowledge that this Option is exempt from Section 409A of the U.S. Internal Revenue Code only if the exercise price per share is at least equal to the "fair market value" per share of the Common Stock on the grant date and there is no other impermissible deferral of compensation associated with the Option. Further, if you have become subject to tax in more than one jurisdiction between the date of grant and the date of any relevant taxable event or tax withholding event, as applicable, you acknowledge that the Employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

Prior to exercise of the Option, you shall pay or make adequate arrangements satisfactory to the Employer to satisfy all Tax-Related Items. In this regard, you authorize the Employer or its respective agents, at their discretion, to withhold all applicable Tax-Related Items from your wages or other cash compensation paid to you by the Employer and/or from proceeds of the sale of the shares. Alternatively, or in addition, if permissible under local law, the Employer may, without your further consent, (1) sell or arrange for the sale of shares that you acquire, to meet the withholding obligation for Tax-Related Items, either through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization) or a voluntary sale (including permitting you to enter into a "same day sale" commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority), and/or (2) withhold in shares of Common Stock issuable at exercise of the Option. Depending on the withholding method, the Employer may withhold or account for Tax-Related Items by considering applicable minimum withholding rates or other applicable withholding rates, including maximum applicable rates, in which case you will receive a refund of any overwithheld amount in cash and will have no entitlement to the share equivalent. If the obligation for the Tax-Related Items is satisfied by withholding in shares of Common Stock, then you will have no further rights, title or interests in or to the number of shares of Common Stock that are held back solely for the purpose of paying the Tax-Related Items, and you are deemed to have been issued the full number of shares of Common Stock subject to the vested exercised Option.

Finally, you shall pay to the Employer any amount of Tax-Related Items that the Employer may be required to withhold as a result of your receipt or exercise of the Option and your sale of the shares obtained pursuant to any exercise of the Option that cannot be satisfied by the means previously described. The Employer may refuse to honor the exercise and refuse to deliver the shares if you fail to comply with your obligations in connection with the Tax-Related Items as described in this section.

3. Nature of Grant. In accepting the grant of the Option, you acknowledge, understand and agree that:

- (a) the Plan is established voluntarily by the Company, is discretionary in nature, and may be modified, amended, suspended or terminated by the Company as provided in the Plan;
- **(b)** the grant of the Option and any other options or Awards under the Plan is voluntary and occasional and does not create any contractual or other right to receive future grants of options, shares, Awards or any other benefit or compensation in lieu of future options, even if options have been granted in the past;
- (c) all decisions with respect to future Awards, if any, will be at the sole discretion of the Company;
- (d) your participation in the Plan shall not create a right to employment or service or be interpreted as forming an employment or service contract with the Company, your employer (if different than the Company) or any Affiliate and shall not interfere with the ability of the Company, the employer or any Affiliate to terminate your employment or service relationship at any time with or without cause;
 - (e) you are voluntarily participating in the Plan;
- (f) the Option is an extraordinary item that does not constitute compensation of any kind for services of any kind rendered to the Employer, and that is outside the scope of your employment or service contract, if any;
- (g) the Option and the shares of Common Stock subject to the Option are not intended to replace any pension rights or compensation;
- (h) the Option and any income derived therefrom is not paid in lieu of any normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, end of service payments, bonuses, long-service awards, life or accident insurance benefits, pension or retirement benefits or similar payments;
- (i) for purposes of the Option, your Continuous Service will be considered terminated as of the date determined by the Company in its sole discretion;
- (j) the future value of the shares underlying the Option is unknown and cannot be predicted with certainty;
- (k) if the value of the underlying shares does not exceed the exercise price upon exercise, the Option will have no value and if you exercise the Option, the value of the shares acquired upon exercise may increase or decrease in value, even below the exercise price;
- (I) you understand that should you die owning shares of Common Stock or the Option, such shares or the Option may subject your estate to United States federal estate taxes. You understand that you should seek your own tax advice regarding this potential tax;
- (m) you disclaim any entitlement to compensation or damages arising from the termination of the Option, including as the result of termination of your employment or other service

relationship with the Employer (for any reason whatsoever, whether or not later found to be invalid or in breach of employment laws in the jurisdiction where you are employed or providing services or the terms of any employment or service agreement), or diminution in value of the shares of Common Stock, and in consideration of the grant of the Option to which you are not otherwise entitled, you hereby agree not to bring any claim against the Company, the Employer and any Affiliate, irrevocably waive your ability, if any to bring such claim, and release the Company, the Employer and any Affiliate from any such claim that may arise;

- (n) the Plan and the Agreement set forth the entire understanding between you, the Company, the Employer, and any Affiliate thereof regarding the acquisition of the shares of Common Stock and supersedes all prior oral and written agreements pertaining to the Option; and
- (o) the following provisions apply only if you are providing services outside the United States:
- (i) the Option and the shares of Common Stock subject to the Option, and the value and income of same, are not part of normal or expected compensation or salary for any purpose; and
- (ii) neither the Company, the Employer nor any Affiliate shall be liable for any foreign exchange rate fluctuation between your local currency and the United States Dollar that may affect the value of the Option or of any amounts due to you pursuant to the exercise of the Option or the subsequent sale of any shares of Common Stock acquired upon exercise.
- 4. <u>Data Privacy</u>. You hereby explicitly, voluntarily and unambiguously consent to the collection, use and transfer, in electronic or other form, of your personal data as described in this Agreement by and among, as applicable, the Company, the Employer and any Affiliate for the exclusive purpose of implementing, administering and managing your participation in the Plan.

You understand that the Company and the Employer may hold certain personal information about you, including, but not limited to, your name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any shares of stock or directorships held in the Company, details of all options or any other entitlement to shares of stock awarded, canceled, exercised, vested, unvested or outstanding in your favor (the "Personal Data"), for the purpose of implementing, administering and managing the Plan. You understand that Personal Data may be transferred to E*Trade Securities LLC or any other third parties assisting in the implementation, administration and management of the Plan, that these recipients may be located in the United States or elsewhere, and that the recipient's country may have different data privacy laws and protections than your country. You understand that you may request a list with the names and addresses of any potential recipients of the Personal Data by contacting your local human resources representative. You authorize the recipients to receive, possess, use, retain and transfer the Personal Data, in electronic or other form, for the purposes of implementing, administering and managing your participation in the Plan, including any requisite transfer of such Personal Data as may be required to a broker or other third party with whom you may elect to deposit any shares of stock acquired upon exercise

of the Option. You understand that Personal Data will be held only as long as is necessary to implement, administer and manage your participation in the Plan. You understand that you may, at any time, view the Personal Data, request additional information about the storage and processing of the Personal Data, require any necessary amendments to the Personal Data or refuse or withdraw the consents herein, in any case without cost, by contacting in writing your local human resources representative. If you do not consent or later seek to revoke your consent, your employment status or service or career with the Employer will not be adversely affected. You understand, however, that refusing or withdrawing your consent may affect your ability to hold the Option and participate in the Plan. For more information on the consequences of your refusal to consent or withdrawal of consent, you understand that you may contact your local human resources representative.

- 5. Governing Law and Venue. The Option is governed by, and subject to, the laws of the State of Delaware without resort to that State's conflict of laws rules. For purposes of litigating any dispute that arises directly or indirectly from the relationship of the parties evidenced by this grant or the Agreement, the parties hereby submit to and consent to the sole and exclusive jurisdiction of the courts of the State of California and agree that such litigation shall be conducted only in the courts of Santa Clara, California, or the federal courts for the United States for the Northern District of California
- 6. **Electronic Delivery.** The Company may, in its sole discretion, decide to deliver any documents related to the Option granted hereunder or to participation in the Plan (or future options or other equity awards that may be granted under the Plan) by electronic means (including by filing documents publicly at www.sec.gov or any successor website thereto) or to request your consent to participate in the Plan by electronic means. You hereby consent to receive such documents by electronic delivery and, if requested, agree to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company. Electronic delivery may include the delivery of a link to a Company intranet or the internet site of a third party involved in administering the Plan, the delivery of the document via email or such other delivery determined at the Company's discretion. You acknowledge that you may receive from the Company a paper copy of any documents delivered electronically at no cost if you contact the Company by telephone, through a postal service or electronic mail. You further acknowledge that you will be provided with a paper copy of any documents delivered electronically if electronic delivery fails; similarly, you understand that you must provide on request to the Company or any designated third party a paper copy of any documents delivered electronically if electronic delivery fails. Also, you understand that your consent may be revoked or changed, including any change in the electronic mail address to which documents are delivered (if you have provided an electronic mail address), at any time by notifying the Company of such revised or revoked consent by telephone, postal service or electronic mail.
- 7. <u>Severability</u>. The provisions of this Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

- **8.** Restrictive Legends. The Common Stock issued under this Option shall be endorsed with appropriate legends, if any, determined by the Company.
- 9. <u>Unsecured Obligation</u>. The Option is unfunded, and even as to any vested portion, you shall be considered an unsecured creditor of the Company with respect to the Company's obligation, if any, to issue Common Stock pursuant to this Agreement. You shall not have voting or any other rights as a stockholder of the Company with respect to the Common Stock acquired pursuant to this Agreement until such Common Stock is issued. Upon such issuance, you will obtain full voting and other rights as a stockholder of the Company with respect to the Common Stock so issued and held by you. Nothing contained in this Agreement, and no action taken pursuant to its provisions, shall create or be construed to create a trust of any kind or a fiduciary relationship between you and the Company or any other person.
- 10. Notices. Any notices provided for herein or in the Plan shall be given in writing to each of the other parties hereto and shall be deemed effectively given on the earlier of (i) the date of personal delivery, including delivery by express courier, (ii) the date that electronic notice is sent by you or Shareholder Services (as applicable), in the case of notices provided by electronic means, or (iii) the date that is five (5) days after deposit in the United States Post Office (whether or not actually received by the addressee), by registered or certified mail with postage and fees prepaid, addressed at the following addresses, or at such other address(es) as a party may designate by ten (10) days' advance written notice to each of the other parties hereto:

COMPANY: Synopsys, Inc.

Shareholder Services

700 East Middlefield Road Mountain View, CA 94043 United States of America

PARTICIPANT: Your address as on file with the Company at the time notice is given

- 11. <u>Amendment</u>. This Agreement may be amended solely by the Company by a writing (including in electronic form) which specifically states that it is amending this Agreement, so long as a copy of such amendment is delivered to you, and provided that no such amendment impairing your rights hereunder may be made without your written consent. Without limiting the foregoing, the Company reserves the right to change, by written notice (including in electronic form), the provisions of this Agreement in any way it may deem necessary or advisable to carry out the purpose of the grant as a result of any change in applicable laws or regulations or any future law, regulation, ruling, or judicial decision, provided that any such change shall be applicable only to rights relating to that portion of the Award which is then subject to restrictions as provided herein.
- 12. Governing Plan Document. This Option is subject to all the provisions of the Plan, the provisions of which are hereby made a part of this Agreement, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. In the event of any conflict between the provisions of this Agreement and those of the Plan, the provisions of the Plan shall control. The Company shall have the power to interpret the Plan and this Agreement and to adopt such rules for the administration,

interpretation, and application of the Plan as are consistent therewith and to interpret or revoke any such rules. All actions taken and all interpretations and determinations made by the Board shall be final and binding upon you, the Company, and all other interested persons. No member of the Board shall be personally liable for any action, determination, or interpretation made in good faith with respect to the Plan or this Agreement.

13. Miscellaneous.

- (a) The rights and obligations of the Company under this Agreement shall be transferable by the Company to any one or more persons or entities, and all covenants and agreements hereunder shall inure to the benefit of, and be enforceable by the Company's successors and assigns.
- **(b)** All obligations of the Company under the Plan and this Agreement shall be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase, merger, consolidation, or otherwise, of all or substantially all of the business and/or assets of the Company.
- (c) You agree upon request to execute any further documents or instruments necessary or desirable in the sole determination of the Company to carry out the purposes or intent of this Option.
- (d) You acknowledge and agree that you have reviewed this Agreement in its entirety, have had an opportunity to obtain the advice of counsel prior to executing and accepting this Option and fully understand all provisions of this Option.
- (e) This Agreement shall be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.
- (f) The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding your participation in the Plan, or your acquisition or sale of the underlying shares of Common Stock. You are hereby advised to consult with your own personal tax, legal and financial advisors regarding your participation in the Plan before taking any action related to the Plan.
- (g) If you have received this or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.
- (h) Notwithstanding any provisions in this Agreement, the Option shall be subject to any special terms and conditions set forth in any Appendix to this Agreement for your country. Moreover, if you relocate to one of the countries included in the Appendix, the special terms and conditions for such country will apply to you, to the extent the Company determines that the application of such terms and conditions is necessary or advisable in order to comply with local law or facilitate the administration of the Plan. The Appendix constitutes part of this Agreement.

(i) The Company reserves the right to impose other requirements on your participation in the Plan, on the Option and on any shares of Common Stock acquired under the Plan, to the extent the Company determines it is necessary or advisable in order to comply with local law or facilitate the administration of the Plan, and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

* * * * * * * * * * * * * * *

Your signature below (or online acceptance, if applicable) indicates that you have read this Notice of Grant of Stock Options and Option Agreement and agree to be bound by the terms and conditions of the Plan and this Agreement. You acknowledge receipt of, and understand and agree to, this Agreement, the Plan, the related Plan prospectus, the Compensation Recovery Policy (if applicable to you), the Company's Section 16 Officer and Director Trading Procedures (if applicable to you) and the Company's Insider Trading Policy. You further acknowledge that as of the grant date, the Agreement and the Plan set forth the entire understanding between the Company and you regarding the award of the Option and the underlying Common Stock and supersede all prior oral and written agreements on that subject with the exception of (i) Awards previously granted and delivered to you under the Plan, and (ii) if applicable to you (A) the terms of any applicable Company change of control severance plan or provisions and (B) the Compensation Recovery Policy.

* * * * *

Your signature below or online acceptance (where permitted) indicates that you have read this Agreement (including any appendices hereto) and agree to be bound by the terms and conditions of the Plan and this Agreement.

| | Synopsys, Inc. | Participant |
|----|------------------------|--------------------------------|
| Ву | | |
| : | | |
| | Title: | %%FIRST NAME%-% %%LAST NAME%-% |
| | Date: %%OPTION DATE%-% | Date: |

Appendix

Synopsys, Inc. Notice of Grant of Stock Options and Option Agreement

This Appendix, which is part of the Notice of Grant of Stock Options and Option Agreement, contains the additional terms and conditions of the Option that will apply to Participants in the countries listed below. If you are a citizen or resident of a country other than the one in which the you are currently working, you transfer employment and/or residency to another country after the Award is granted or you are considered a resident of another country for local law purposes, the Company shall, in its sole discretion, determine to what extent the terms and conditions included herein will apply under these circumstances. Capitalized terms used but not defined herein shall have the same meanings assigned to them in the Plan and/or the Agreement.

All Non-US Jurisdictions

Exercise, Including Upon Termination of Employment. The following provision supplements Section 1 of the Agreement:

Paying the exercise price by means of the surrender of other shares of Common Stock is prohibited and not an available method of exercise.

Canada

There are no country-specific terms or conditions.

Finland

There are no country-specific terms or conditions.

France

<u>Consent to Receive Information in English</u>. By accepting the Option, you confirm having read and understood the Plan and Agreement, including all terms and conditions included therein, which were provided in the English language. You accept the terms of those documents accordingly.

En acceptant cette Option, vous confirmez avoir lu et compris le Plan and le Contrat y relatifs, incluant leurs termes et conditions, qui ont été transmis en langue anglaise. Vous acceptez les dispositions de ces documents en connaissance de cause.

Germany

There are no country-specific terms or conditions.

Hong Kong

Securities Warning. The Option and any shares of Common Stock issued at exercise of the Option do not constitute a public offering of securities under Hong Kong law and are available only to employees and consultants of the Company and its Affiliates. The Agreement, including this Appendix, the Plan and other incidental communication materials have not been prepared in accordance with and are not intended to constitute a "prospectus" for a public offering of securities under the applicable securities legislation in Hong Kong, nor have the documents been reviewed by any regulatory authority in Hong Kong. The Option and any related documentation are intended only for your personal use and may not be distributed to any other person. If you are in any doubt about any of the contents of the Agreement, including this Appendix, or the Plan, you should obtain independent professional advice.

<u>Sale of Shares</u>. In the event the Option vests within six months of the grant date, you agree that you will not sell any shares of Common Stock acquired upon exercise prior to the six-month anniversary of the grant date.

Hungary

There are no country-specific terms or conditions.

India

<u>Exercise</u>, <u>Including Upon Termination of Employment</u>. The following provision supplements Section 1 of the Agreement:

Upon the exercise of the Option, any shares to be issued to you will be immediately sold in a same-day sale transaction. In no case may you exercise and hold Common Stock following the exercise of the Option. You agree that the Company is authorized to instruct its designated broker to assist with the mandatory sale of such shares (on your behalf pursuant to this authorization) and you expressly authorize the Company's designated broker to complete the sale of such shares. You acknowledge that the Company's designated broker is under no obligation to arrange for the sale of the shares at any particular price. Upon the sale of the shares, the Company agrees to pay you the cash proceeds from the sale, less any brokerage fees or commissions and subject to any obligation to satisfy Tax-Related Items.

Ireland

There are no country-specific terms or conditions.

Israel

<u>Trust Arrangement</u>. You understand and agree that the Option is granted subject to and in accordance with the Synopsys, Inc. 2006 Employee Equity Incentive Plan Israeli Subplan (the "Subplan"), the trust deed between the Company and ESOP Management and Trust Services Ltd. or any successor trustee (the "Trustee"), the Confirmation Letter -- Trustee 102 Awards, the Agreement and the Plan. You further understand and agree that the Option and any shares of

Common Stock issued upon exercise of the Option are intended to qualify for the favorable tax treatment available in Israel pursuant to the provisions of the 102 Capital Gains Track (as defined in the Subplan). The Company does not make any undertaking or representation to maintain the qualified status of the Option. In the event of any inconsistencies between the Subplan, the Agreement and/or the Plan, you agree that the Subplan will govern the Option granted to you in Israel.

If you have not already signed the Confirmation Letter -- Trustee 102 Awards provided by ESOP Management and Trust Services Ltd. or the Employer in connection with grants made under the Subplan, then you must print, sign and deliver the signed copy of the Confirmation Letter within 90 days to ESOP Management and Trustee Services Ltd. by email to esop-helpdesk@esop.co.il or by fax to 972-3-7602632. If you deliver your signed Confirmation Letter by fax, you should confirm receipt by contacting ESOP Management and Trust Services Ltd. by email at esop-helpdesk@esop.co.il or by phone at 1700-70-3767. If the Trustee does not receive the signed Confirmation Letter within 90 days, the Option may not qualify for the favorable tax treatment under Section 102.

<u>Method of Exercise & Transfer Restrictions</u>. This provision supplements Section 1(b) of the Agreement:

To receive the favorable tax treatment provided for in Section 102, the Option and the shares of Common Stock issued upon exercise of the Option will be held or controlled by the Trustee, pursuant to the terms of the trust deed, for your benefit, during the Required Holding Period (as defined in the Subplan), which, until further election by the Company, shall be twenty-four (24) months from the grant date, or any other period determined under the ITO (as defined in the Subplan) as now in effect or as hereafter amended or determined by the Israeli Income Tax Authority. You may still exercise the Option and sell shares of Common Stock through your account with the Company's designated broker, subject to the terms set forth in this Appendix. You hereby understand and agree you cannot require the designated broker or the Trustee to release or sell the shares of Common Stock during the Required Holding Period. After the Required Holding Period has expired, the shares of Common Stock issued at exercise of the Option will continue to be held or controlled by the Trustee until the earlier of (i) the receipt by the Trustee of an acknowledgment from the Israeli Income Tax Authority that you have paid all applicable taxes due pursuant to the ITO and Section 102, or (ii) the Trustee withholds any applicable tax due pursuant to the ITO and Section 102. Notwithstanding the above, if any release or sale of shares of Common Stock occurs during the Required Holding Period, the tax consequences under Section 102 shall apply to and shall be borne solely by you.

<u>Securities Law Exemption</u>. An exemption from the requirement to file a prospectus with respect to the Plan has been granted to the Company by the Israeli Securities Authority. Copies of the Plan and Form S-8 registration statement for the Plan file with the United States Securities and Exchange Commission are available free of charge upon request at your local HR department.

Italy

<u>Data Privacy</u>. The following provision replaces Section 4 of the Agreement:

You hereby acknowledge that your personal data is collected, used, processed and transferred outside of the European Union, as described in this Agreement by and among, as applicable, the Employer, the Company and any Affiliate for the exclusive purpose of implementing, administering and managing your participation in the Plan. You understand that the Employer and/or the Company hold certain personal information about you, including, but not limited to, your name, home address and telephone number, date of birth, national insurance number or other identification number, salary, nationality, job title, any shares of Common Stock or directorships held in the Company, details of all Options or other entitlement to shares of Common Stock awarded, canceled, exercised, vested, unvested or outstanding in your favor, for the purpose of implementing, administering and managing the Plan ("Data").

You are aware that providing the Company with the Data is necessary for the performance of this Agreement and that your refusal to provide the Data would make it impossible for the Company to perform its contractual obligations and may impact your ability to exercise or realize benefits from the Option. Your Data shall be accessible within the Company's organization only by the persons specifically charged with Data-processing operations and by the persons that need to access the Data because of their duties and position in relation to the performance of the contract. The Controller of personal data-processing is the Company, with registered offices at 700 East Middlefield Road, Mountain View, CA 94043, U.S.A., and, pursuant to Legislative Decree no. 196/2003, its representative in Italy is Synopsys Italia S.r.l. with registered offices at Centro Direzionale Colleoni, Viale Colleoni 11 - Palazzo Sirio 3, 20041 Agrate Brianza (MI), Italy.

You understand that Data will be transferred to E*Trade Securities LLC and/or to such other stock plan service provider as may be selected by the Company, which are assisting the Company with the implementation, administration and management of the Plan and that Data may be transferred to certain other third parties assisting in the implementation, administration and management of the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom you may elect to deposit any shares of Common Stock acquired upon exercise of the Option. You understand that these recipients, which may receive, possess, use, retain and transfer such Data for the above-mentioned purposes, may be located in the United States, or elsewhere, including outside of the European Economic Area, and that the recipient's country may have different data privacy laws and protections than your country. The processing activity, including transfer of Data abroad, including outside of the European Economic Area, as herein specified and pursuant to applicable laws and regulations, does not require your consent thereto as the processing is necessary to performance of contractual obligations related to the implementation, administration and management of the Plan.

You understand that Data-processing relating to the purposes above specified shall take place under automated or non-automated conditions, anonymously when possible, that comply with the purposes for which Data is collected and with confidentiality and security provisions as set forth by applicable laws and regulations, with specific reference to Legislative Decree no.

196/2003. You understand that Data will be held only as long as is required by the law or is necessary to implement, administer and manage your participation in the Plan. You understand that, pursuant to Article 7 of Legislative Decree No. 196/2003, you have the right, without limitation, to access, delete, update, request the rectification of your Data and cease, for legitimate reasons, the Data-processing. Furthermore, you are aware that the Data will not be used for direct marketing purposes. In addition, the Data provided can be reviewed and questions or complaints can be addressed by contacting your local HR representative.

Japan

There are no country-specific terms or conditions.

Korea

There are no country-specific terms or conditions.

Netherlands

There are no country-specific terms or conditions.

People's Republic of China

Exercise, Including Upon Termination of Employment. The following provision supplements Section 1 of the Agreement:

Notwithstanding the specified twelve (12) month period for exercising the Option following death or disability, in no event may the Option be exercised more than six (6) months following termination of your Continuous Service.

Due to local requirements, upon the exercise of the Option, any shares to be issued to you will be immediately sold in a same-day sale transaction. In no case may you exercise and hold Common Stock following the exercise of the Option. You agree that the Company is authorized to instruct its designated broker to assist with the mandatory sale of such shares (on your behalf pursuant to this authorization) and you expressly authorize the Company's designated broker to complete the sale of such shares. You acknowledge that the Company's designated broker is under no obligation to arrange for the sale of the shares at any particular price. Upon the sale of the shares, the Company agrees to pay you the cash proceeds from the sale, less any brokerage fees or commissions and subject to any obligation to satisfy Tax-Related Items.

In addition, you understand and agree that, pursuant to local exchange control requirements, you will be required to repatriate the cash proceeds from the immediate sale of the shares issued upon the exercise of the Option to the PRC if you are a PRC national or are otherwise determined to be subject to the requirements imposed by the State Administration of Foreign Exchange as determined by the Company. You further understand that, under local law, the sale proceeds will need to be repatriated through a special exchange control account established by an Affiliate in the PRC and you hereby consent and agree that any proceeds from the sale may be transferred to such special account prior to being delivered to you. You further agree to comply with any other requirements

that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in the PRC.

You further understand and agree that the Company may distribute the proceeds of the sale of shares either in U.S. dollars or in local currency. If the proceeds are distributed in local currency, the Company is under no obligation to secure any particular exchange conversion rate and there will be delays in converting the cash proceeds to local currency due to exchange control restrictions. You agree to bear any currency fluctuation risk between the time the shares are sold and the time the cash proceeds are distributed to you through the special account described above.

Singapore

There are no country-specific terms or conditions.

Sweden

There are no country-specific terms or conditions.

Switzerland

There are no country-specific terms or conditions.

Taiwan

There are no country-specific terms or conditions.

United Kingdom

Responsibility for Taxes. The following provision supplements Section 2 of the Agreement:

If you do not pay or the Company or the Employer does not withhold from you the full amount of any income tax that you owe within ninety (90) days of the event giving rise to the Tax-Related Items (the "Due Date") or such other period specified in Section 222(1)(c) of the U.K. Income Tax (Earnings and Pensions) Act 2003, the amount of any uncollected income tax will constitute a loan owed by you to the Employer, effective on the Due Date. You agree that the loan will bear interest at the then-current official rate of Her Majesty's Revenue and Customs ("HMRC"), it will be immediately due and repayable, and the Company or the Employer may recover it at any time thereafter by any of the means referred to in Section 2 of the Agreement. Notwithstanding the foregoing, if you are a director or executive officer of the Company (within the meaning of Section 13(k) of the U.S. Securities and Exchange Act of 1934, as amended), you will not be eligible for such a loan to cover the income tax. In the event that you are a director or executive officer and the income tax is not collected from or paid by you by the Due Date, the amount of any uncollected income tax will constitute a benefit to you on which additional income tax and national insurance contributions (including the Employer's Liability, as defined below) may be payable. You will be responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for reimbursing the Company or the Employer, as applicable, for the value of any employee national insurance contributions due on this additional benefit, which

the Company or the Employer may recover at any time thereafter by any of the means in Section 2 of the Agreement.

As a condition of participation in the Plan, you agree to accept any liability for secondary Class 1 national insurance contributions (the "*Employer's Liability*") which may be payable by the Company and/or the Employer in connection with the Option and any event giving rise to Tax-Related Items. Without prejudice to the foregoing, you agree to execute a joint election with the Company (the "*Joint Election*") prior to exercising the Option, the form of such Joint Election being formally approved by HMRC and attached hereto as Exhibit A, and any other consent or elections required to accomplish the transfer of the Employer's Liability to you. You further agree to execute such other joint elections as may be required between yourself and any successor to the Company and/or the Employer. You further agree that the Company and/or the Employer may collect the Employer's Liability by any of the means set forth in Section 2 of the Agreement.

If you do not enter into a Joint Election prior to exercising the Option, if approval of the Joint Election has been withdrawn by HMRC or if such Joint Election is jointly revoked by you and the Company or the Employer, as applicable, this Option shall, at the discretion of the Company, without any liability to the Company or the Employer, not be exercisable and/or the Company may choose not to issue or deliver any shares upon exercise of the Option.

Exhibit A

(UK Participants)

PLEASE READ THE FOLLOWING IN ITS ENTIRETY BEFORE ACCEPTING YOUR AWARD

SYNOPSYS, INC. 2006 EMPLOYEE EQUITY INCENTIVE PLAN

Important Note on the Joint Election to Transfer Employer National Insurance Contributions

As a condition of your participation in the 2006 Employee Equity Incentive Plan, you are required to enter into a joint election to transfer to you any liability for employer's national insurance contributions (the "*Employer's Liability*") that may arise in connection with your award of stock options and/or restricted stock units (together, the "*Awards*"), or in connection with future Awards that may be granted to you by Synopsys, Inc. (the "*Company*") under its 2006 Employee Equity Incentive Plan (the "*Joint Election*").

If you do not agree to enter into the Joint Election, the Awards will be worthless, you will not be able to exercise the options or vest in the restricted stock units, or receive any benefit in connection with the Awards, as set forth in your Award Agreement.

By entering into the Joint Election:

- you agree that any Employer's Liability that may arise in connection with or pursuant to
 the exercise or vesting of the Award, as applicable (and the acquisition of shares of the
 Company's common stock) or other taxable events in connection with the Award will be
 transferred to you; and
- you authorise the Company and/or your employer to recover an amount sufficient to cover this liability by any method set forth in the relevant Award Agreement and/or the Joint Election.

Indicating your acceptance of the Option Agreement and/or Restricted Stock Unit Award Agreement, as applicable, indicates your agreement to be bound by the terms of the Joint Election.

Please read the terms of the Joint Election carefully before accepting the Option Agreement and/or the Restricted Stock Unit Award Agreement and the Joint Election.

PLEASE PRINT AND KEEPA COPY OF THIS ELECTION FOR YOUR RECORDS

SYNOPSYS , INC. 2006 EMPLOYEE EQUITY INCENTIVE PLAN

(UK Participants)

FORM OF ELECTION TO TRANSFER THE EMPLOYER'S SECONDARY CLASS 1 NATIONAL INSURANCE LIABILITY TO THE EMPLOYEE

1. Parties

This Election is between:

- (A) You, the individual who has obtained access to this Election (the "Participant"), who is employed by one of the employing companies listed in the attached schedule (the "Employer") and who is eligible to receive stock options ("Options") and/or restricted stock units ("RSUs") (each an "Award" and together, the "Awards") pursuant to the terms and conditions of the Synopsys, Inc. 2006 Employee Equity Incentive Plan (the "Plan"), and
- (B) Synopsys, Inc. of 700 East Middlefield Road, Mountain View, California 94043, United States (the "Company"), which may grant Awards under the Plan and is entering this Election on behalf of the Employer.

2. **Purpose of Election**

- 2.1. This Election relates to the Employer's secondary Class 1 National Insurance Contributions (the "Employer's Liability") which may arise on the occurrence of a "Taxable Event" which gives rise to relevant employment income within section 4(4)(a) and/or paragraph 3B(1A) of Schedule 1 of the Social Security Contributions and Benefits Act 1992 ("SSCBA"), including but not limited to:
 - a. the acquisition of securities pursuant to the Awards (pursuant to section 477(3)(a) ITEPA); and/or
 - b. the assignment or release of the Awards in return for consideration (pursuant to section 477(3)(b) ITEPA); and/or
 - c. the receipt of any other benefit in connection with the Awards other than a benefit within (i) or (ii) above (pursuant to section 477(3)(c) ITEPA); and/or
 - d. post-acquisition events relating to the Awards or the securities acquired pursuant to the Awards (within section 426 ITEPA); and/or
 - e. post-acquisition events relating to the Awards or the securities acquired pursuant to the Awards (within section 438 ITEPA).

In this Election, ITEPA means the Income Tax (Earnings and Pensions) Act 2003.

- 2.2. This Election is made in accordance with paragraph 3B(1) of Schedule 1 to SSCBA.
- 2.3. This Election applies to all Awards granted to the Participant under the Plan on or after May 22, 2009 up to the termination date of the Plan.
- 2.4. This Election does not apply in relation to any liability, or any part of any liability, arising as a result of regulations being given retrospective effect by virtue of section 4B(2) of either the SSCBA, or the Social Security Contributions and Benefits (Northern Ireland) Act 1992.
- 2.5. This Election will not apply to the extent that it relates to relevant employment income which is employment income of the earner by virtue of Chapter 3A of Part 7 of ITEPA (employment income: securities with artificially depressed market value).

3. The Election

The Participant and the Company jointly elect that the entire liability of the Employer to pay the Employer's Liability on the Taxable Event is hereby transferred to the Participant. The Participant understands that by electronically accepting this Election, he or she will become personally liable for the Employer's Liability covered by this Election.

4. Payment of the Employer's Liability

- 4.1. The Participant and the Company acknowledge that the Employer is under a duty to remit the Employer's Liability to HM Revenue and Customs on behalf of the Participant within 14 days after the end of the UK tax month during which the Taxable Event occurs, or such other period of time, as prescribed. The Participant agrees to pay to the Company and/or the Employer the Employer's Liability on demand, at any time on or after the Taxable Event and hereby authorises the Company and/or the Employer to account for the Employer's Liability to HM Revenue and Customs.
- 4.2. Without limitation to Clause 4.1 above, the Participant hereby authorises the Company and/ or the Employer to collect the Employer's Liability from the Participant at any time after the Taxable Event:
 - a. by deduction from salary or any other payment payable to the Participant at any time on or after the date of the Taxable Event; and/or
 - b. directly from the Participant by payment in cash or cleared funds; and/or
 - c. by arranging, on behalf of the Participant, for the sale of some of the securities which the Participant is entitled to receive in respect of the Awards; and/or
 - d. through any other method as set forth in the relevant Award agreement entered into between the Participant and the Company.

4.3. The Company hereby reserves for itself and the Employer the right to withhold the transfer of any securities to the Participant until full payment of the Employer's Liability is collected from the Participant.

5. **Duration of Election**

- 5.1. The Participant and the Company agree to be bound by the terms of this Election regardless of whether the Participant is transferred abroad or is not employed by the Employer on the date on which the Employer's Liability becomes due. Any reference to the Company, the Employer and/or the Participant shall include that entity's successors in title and assigns as permitted in accordance with the terms of the Plan and Award agreement.
- 5.2. This Election will continue in effect until the earliest of the following:
 - a. such time as both the Participant and the Company agree in writing that it should cease to have effect;
 - b. on the date the Company serves written notice on the Participant terminating its effect;
 - c. on the date HM Revenue and Customs withdraws approval of this Election; or
 - d. on the date the Election ceases to have effect in accordance with its terms in respect of any outstanding Awards granted under the Plan.

Acceptance by THE PARTICIPANT

The Participant acknowledges that by clicking on the "I accept" button where indicated and from that date, the Participant agrees to be bound by the terms of this Election as stated above.

Acceptance by THE COMPANY

The Company acknowledges that by arranging for the scanned signature of an authorised representative to appear on this Election, the Company agrees to be bound by the terms of this Election as stated above.

| Synopsys, Inc. | | _ |
|----------------|--|---|
| Name: | | |
| Title: | | |

<u>SCHEDULE TO FORM OF ELECTION – EMPLOYING COMPANIES</u>

The employing companies to which this Election relates are:

(1) Synopsys (Northern Europe) Limited

| Registered Office: | 100 Brook Drive Green Park, Reading RG2 6UJ United Kingdom |
|------------------------------|---|
| Company Registration Number: | 2642054 |
| Corporation Tax District: | Oxon and Bucks Area |
| Corporation Tax Reference: | 402 56090 10710 |
| PAYE District: | East Hampshire and Wight Area |
| PAYE Reference: | 581/S3033 |

SUBSIDIARIES OF SYNOPSYS, INC.

| Abjail (UK) Ltd. Alarity Corporation Alarity Corporation Alarity Corporation ARC International (UK) Ltd. ARC International Cambridge Ltd. ARC International Cambridge Ltd. ARC International Intellectual Property, Inc. California ARC International Limited ARC International Limited ARC International Limited ARC International Uses Holdings Ltd. ARC International Uses Holdings Ltd. ARC International Uses Holdings, Inc. California ARC International Uses Holdings, Inc. Delaware Atlantic Acqco, LDA ARC International Us. Holdings, Inc. Delaware Atlantic Acqco, LDA Portugal Coverity (Beijing) Software Sales Co., Ltd. Coverity (India) Private Limited India Coverity (India) Private Limited India Coverity (India) Private Limited India Coverity Jamericas, Inc. Delaware Coverity Jamericas, Inc. Coverity Japan Co., Ltd Delaware Ever Design Automation Pvt. Ltd India EVE-USA, Inc. Delaware Knights Technology Incorporated Oregon Magma Design Automation Ltd. Delaware Knights Technology Incorporated Oregon Magma Design Automation Ltd. Delaware Novas Software Inc. Delaware Novas Software Inc. Delaware Novas Software Inc. Delaware Rsoft Design Group, Inc. Rsoft, Inc. Delaware Rsoft Design Group, Inc. Rsoft, Inc. Delaware Rsoft, Inc. Novas Software Inc. Delaware Rsoft, Inc. Novas Software Inc. Delaware Rsoft, Inc. Delaw | Name | Jurisdiction of Incorporation |
|--|---|-------------------------------|
| ARC International (UK) Ltd. ARC International Cambridge Ltd. ARC International Cambridge Ltd. ARC International Lambridge Ltd. ARC International Intellectual Property, Inc. ARC International Intellectual Property, Inc. ARC International Limited ARC International Userseas Holdings Ltd. ARC International Userseas Holdings Lt | Abigail (UK) Ltd. | United Kingdom |
| ARC International Cambridge Ltd. ARC International I.P., Inc ARC International I.P., Inc ARC International Intellectual Property, Inc. ARC International Limited ARC International Limited ARC International Coverseas Holdings Ltd. ARC International Overseas Holdings Ltd. ARC International Overseas Holdings Ltd. ARC International U.S. Holdings, Inc. Delaware Atlantic Acçoc, LDA Portugal Coverity (Beijing) Software Sales Co., Ltd. Coverity (Hong Kong) Limited Coverity (Hong Kong) Limited Coverity (Hong Private Limited India Coverity Americas, Inc. Coverity Americas, Inc. Coverity France S.A.S. France Coverity France S.A.S. France Coverity Jemited Coverity Jemited Coverity Limited Coverity Limited United Kingdom Coverity Limited Cov | Alarity Corporation | Delaware |
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| SpringSoft (Snanghar) Co., Etc. | SpringSoft (Shanghai) Co., Ltd. | Shanghai |

| Name | Jurisdiction of Incorporation |
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| SpringSoft (Xiamen) Co., Ltd. | China |
| SpringSoft Design Automation Ltd | United Kingdom |
| SpringSoft K.K. | Japan |
| SpringSoft USA, Inc. | California |
| SpringSoft, Inc. | British Virgin Islands |
| Synopsys (Beijing) Company Limited | China |
| Synopsys (India) EDA Software Private Limited | India |
| Synopsys (India) Private Limited | India |
| Synopsys (Northern Europe) Limited | United Kingdom |
| Synopsys (Shanghai) Co., Ltd. | China |
| Synopsys (Singapore) Pte. Limited | Singapore |
| Synopsys (Wuhan) Company Limited | China |
| Synopsys AGLS | Turkey |
| Synopsys Armenia CJSC | Armenia |
| Synopsys Australia Pty Limited | Australia |
| Synopsys Canada Holdings ULC | Canada |
| Synopsys Canada ULC | Canada |
| Synopsys Chile Limitada | Chile |
| Synopsys China Holdings, Ltd. | Bermuda |
| Synopsys Denmark ApS | Denmark |
| Synopsys Emulation and Verification (Shanghai) Ltd. Co. | China |
| Synopsys Emulation and Verification Korea Ltd. | Korea |
| Synopsys Emulation and Verification S.A.S. | France |
| Synopsys Finland OY | Finland |
| Synopsys Global Kft. | Hungary |
| Synopsys GmbH | Germany |
| Synopsys Hardware Platforms Group AB | Sweden |
| Synopsys International Holdings Inc. | Delaware |
| Synopsys International Limited | Ireland |
| Synopsys International Old Limited | Ireland |
| Synopsys International Services, Inc. | Delaware |
| Synopsys Ireland Limited | Ireland |
| Synopsys Italia S.r.I. | Italy |
| Synopsys Korea, Inc. | Korea |
| Synopsys Ltd. | Russia |
| Synopsys Macau Sociedade Unipessoal | Macau |
| Synopsys Poland Sp.z.o.o. | Poland |
| Synopsys SARL | France |
| Synopsys Scandinavia AB | Sweden |
| Synopsys SPb LLC. | Russia |
| Synopsys Switzerland LLC | Switzerland |
| Synopsys Taiwan Co., Ltd | Taiwan |
| Synopsys Technologies Holding LLC | Delaware |
| Synplicity LLC | California |
| Target Compiler Technologies Inc. | Colorado |
| Target Compiler Technologies NV | Belgium |
| VaST Systems Technology LLC | Delaware |
| VCEDA Partners | British Virgin Islands |

| Name | Jurisdiction of Incorporation |
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| VChina Partners | British Virgin Islands |
| Virage Logic International | California |
| Virage Logic LLC | Delaware |
| VL BV | Netherlands |

Consent of Independent Registered Public Accounting Firm

The Board of Directors Synopsys, Inc.:

We consent to the incorporation by reference in the registration statements (Nos. 333-84517 and 333-68011) on Form S-3 and (Nos. 333-196428, 333-195167, 333-189019, 333-185600, 333-181875, 333-179940, 333-174587, 333-169275, 333-166274, 333-157791, 333-151070, 333-151067, 333-134899, 333-125225, 333-125224, 333-116222, 333-108507, 333-106149, 333-103636, 333-103635, 333-103418, 333-100155, 333-99651, 333-97319, 333-97317, 333-75638, 333-77000, 333-71056, 333-63216, 333-56170, 333-45056, 333-38810, 333-32130, 333-90643, 333-84279, 333-77597, 333-77127, 333-68883, 333-60783, 333-50947, 333-45181, 333-42069, and 333-22663) on Form S-8 of Synopsys, Inc. of our report dated December 12, 2014, with respect to the consolidated balance sheets of Synopsys, Inc. and subsidiaries as of November 1, 2014 and November 2, 2013, and the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows for each of the years in the three-year period ended November 1, 2014, and the effectiveness of internal control over financial reporting as of November 1, 2014, which report appears in the October 31, 2014 annual report on Form 10-K of Synopsys, Inc.

Our report dated December 12, 2014, on the effectiveness of internal control over financial reporting as of November 1, 2014, contains an explanatory paragraph that states that Synopsys, Inc. excluded from their evaluation the internal control over financial reporting of Coverity, Inc. (Coverity), which Synopsys, Inc. acquired on March 24, 2014. This acquisition is discussed in note 3 of Notes to Consolidated Financial Statements. As of and for the year ended November 1, 2014, Coverity represented, in the aggregate, approximately 1% of consolidated total assets and consolidated total revenue, respectively.

/s/ KPMG LLP

Santa Clara, California December 12, 2014

CERTIFICATION

I, Aart J. de Geus, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of Synopsys, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, 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 registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 12, 2014 /s/ Aart J. de Geus

Aart J. de Geus Co-Chief Executive Officer and Chairman (Co-Principal Executive Officer)

CERTIFICATION

- I, Chi-Foon Chan, certify that:
- 1. I have reviewed this Annual Report on Form 10-K of Synopsys, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, 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 registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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:
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 12, 2014 /s/ Chi-Foon Chan

Chi-Foon Chan

Co-Chief Executive Officer and President (Co-Principal Executive Officer)

CERTIFICATION

- I, Trac Pham, certify that:
- 1. I have reviewed this Annual Report on Form 10-K of Synopsys, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, 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 registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 12, 2014 /s/ Trac Pham

Trac Pham
Chief Financial Officer
(Principal Financial Officer)

Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code)

Pursuant to the requirement set forth in Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and Section 1350, Chapter 63 of Title 18 of the United States Code (18 U.S.C-§1350), each of Aart J. de Geus, Co-Chief Executive Officer and Chairman of Synopsys, Inc., a Delaware corporation (the "Company"), Chi-Foon Chan, Co-Chief Executive Officer and President of the Company, and Trac Pham, Chief Financial Officer of the Company, does hereby certify, to such officer's knowledge that:

The Annual Report on Form 10-K for the fiscal year ended October 31, 2014 (the "Form 10-K") to which this Certification is attached as Exhibit 32.1 fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act. The information contained in the Form 10-K fairly presents, in all material respects, the financial condition and results of operations of the Company.

IN WITNESS WHEREOF, the undersigned have set their hands hereto as of December 12, 2014.

| /s/ Aart J. de Geus |
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| Aart J. de Geus Co-Chief Executive Officer and Chairman |
| /s/ Chi-Foon Chan |
| Chi-Foon Chan |
| Co-Chief Executive Officer and President |
| |
| |
| |
| /s/ Trac Pham |
| Trac Pham |
| Chief Financial Officer |

The foregoing certification is being furnished solely pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code) and is not deemed filed with the Securities and Exchange Commission as part of the Form 10-K or as a separate disclosure document and is not to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Form 10-K), irrespective of any general incorporation language contained in such filing.