PROS Holdings, Inc.

Form 10-K

February 27, 2015

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-K

(MARK ONE)

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

1934

For the fiscal year ended December 31, 2014

OR

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

OF 1934

For the transition period from to

Commission File Number 001-33554

PROS HOLDINGS, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware 76-0168604
(State or Other Jurisdiction of Incorporation or Organization) Identification No.)

3100 Main Street, Suite 900, Houston, Texas 77002 (Address of Principal Executive Offices) (Zip code) Registrant's telephone number, including area code: (713) 335-5151

Securities Registered Pursuant to Section 12(b) of the Act:

Title of Each Class Name of Each Exchange on Which Registered

Common Stock, par value \$0.001 per share

New York Stock Exchange

Securities Registered Pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes " No ý

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes " No ý

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes ý No "

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T(§232.405 of

this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes ý No "

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 definition of "large accelerated filer", "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.:

Large Accelerated Filerý

Accelerated Filer

Non-Accelerated Filer

" (do not check if a smaller reporting

Smaller Reporting Company"

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes "No \acute{v}

The aggregate market value of voting and non-voting common equity held by non-affiliates of the registrant was approximately \$636.3 million as of June 30, 2014 based upon the closing price for the registrant's of the common stock on the New York Stock Exchange. This determination of affiliate status was based on publicly filed documents and is not necessarily a conclusive determination for other purposes.

As of February 24, 2015, there were outstanding 29,332,176 shares of common stock, par value \$0.001, of the registrant.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement relating to its 2015 Annual Stockholders Meeting, to be filed within 120 days of the end of the fiscal year ended December 31, 2014, are incorporated by reference into Part III of this Annual Report on Form 10-K.

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SIGNIFICANT RELATIONSHIPS REFERENCED IN THIS ANNUAL REPORT

The terms "PROS," "we," "us," and "our" refers to PROS Holdings, Inc., a Delaware corporation, and all of its subsidiaries that are consolidated in conformity with the generally accepted accounting principles in the United States of America ("GAAP").

CAUTIONARY STATEMENT REGARDING FORWARD LOOKING STATEMENTS

This Annual Report on Form 10-K contains certain statements that may be deemed to be "forward-looking statements" that anticipate results based on our estimates, assumptions and plans that are subject to uncertainty. These statements are made subject to the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995, 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"). All statements in this report not dealing with historical results or current facts are forward-looking and are based on estimates, assumptions and projections. Statements which include the words "believes," "seeks," "expects," "may," "should," "intends," "likely," "targets," "plans," "anticipates," "estimates," or the negative version of those words and similar statements of future or forward-looking nature identify forward-looking statements. The forward-looking statements made herein are only made as of the date hereof, and we undertake no obligation to publicly update such forward-looking statements whether as a result of new information, future events or otherwise.

Numerous important factors, risks and uncertainties affect our operating results, including, without limitation, those contained in this report, and could cause our actual results to differ materially, from the results implied by these or any other forward-looking statements made by us or on our behalf. There can be no assurance that future results will meet expectations. You should pay particular attention to the important risk factors and cautionary statements described in the section of this report entitled "Risk Factors". You should also carefully review the cautionary statements described in the other documents we file from time to time with the Securities and Exchange Commission ("SEC"), specifically all Quarterly Reports on Form 10-Q and Current Reports on Form 8-K. Information contained on our website is not part of this report.

Part I Item 1. Business Overview

PROS provides big data software solutions designed to help companies outperform in their markets by using big data to sell more effectively. We apply years of data science experience to unlock buying patterns and preferences within transaction data to reveal which opportunities are most likely to close, which offers are most likely to sell and which prices are most likely to win. PROS offers big data software solutions to analyze, execute, and optimize sales, pricing, quoting, rebates, and revenue management. We also provide professional services to implement our software solutions. We have completed over 800 implementations of our solutions, across more than 40 industries in more than 55 countries.

We were incorporated in Texas in 1985. We reincorporated as a Delaware corporation in 1998. In 2002, we reorganized as a holding company in Delaware. In December 2013 we acquired SignalDemand, Inc., a Delaware corporation ("SignalDemand"), an optimization software company, for total cash consideration of \$13.5 million. In November 2014, we completed the acquisition of Cameleon Software SA, a French société anonyme ("Cameleon"), in an all-cash transaction valued at approximately €24 million (U.S. \$33 million), net of cash acquired. Our principal executive offices are located at 3100 Main Street, Suite 900, Houston, Texas 77002. We report as one operating segment with our Chief Executive Officer acting as our chief operating decision maker.

Our telephone number is (713) 335-5151. Our website is www.PROS.com. Our website and the information contained therein or connected thereto are not intended to be incorporated into this Annual Report on Form 10-K.

Our industry

Data-driven decision making is an important driver of business performance. The proliferation of high volume, high velocity and complex data, commonly referred to as "big data", is increasing rapidly, and companies are demanding cost-effective, innovative forms of information processing to exploit big data. Software applications can leverage big data to enhance insight and help companies make business decisions that affect growth and profitability. We believe software applications that apply data science to big data are one of the most compelling opportunities for companies to improve sales, pricing, quoting, rebates, and revenue management. These applications allow companies to move from instinct-driven sales, pricing, and revenue management strategies, to data-driven strategies. We expect market forces to continue to accelerate the demand for big data solutions. These forces include increasingly complex customers, markets and business models, uncertain demand for products and services, volatile costs, proliferation of competitive alternatives, and exponentially increasing enterprise and market data. We believe the market

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for big data science and technology is a large and growing opportunity that spans most major industries.

Our solutions

We believe our big data solutions help transform our customers' big data into a strategic advantage. By using our solutions, our customers can gain greater confidence and agility in their selling strategies through data-driven insights into sales transactions. These insights include the customers and prospects of a company that are most likely to buy, and which offers and pricing are most likely to result in a closed deal. We seek to deliver these insights through software packages that apply data science to a company's historic customer transaction, market and other data to uncover customer buying patterns and preferences. Our solutions make it easier for companies to configure the correct product(s), set the right price and get a quote into the hands of a customer quickly. The data science embedded in our solutions provides our customers with predictive and prescriptive guidance on key business decisions that drive growth and profitability, including product mix optimization, price forecasting, price optimization, product configuration recommendations, cross-sell and upsell recommendations, attrition detection, and willingness-to-pay. Our solutions also help to streamline sales, pricing and revenue management processes with enhanced automation, controls, and compliance.

Our high-performance software architecture supports real-time, high-volume transaction processing and enables us to handle the processing and database requirements of sophisticated customers, including those who need to respond to their customers with sub-second electronic response requirements. We provide standardized configurations of our software based on the industries we serve and offer professional services to configure these solutions to meet the specific needs of each customer. Our software solutions currently operate in some of the largest, most complex and demanding information technology environments.

We license our solutions under both perpetual and term license models for customers. For perpetual licenses, our customers receive the perpetual right to use our software. Our license agreements provide customers with the right to use licensed solutions within a specific license scope, including but not limited to revenue, geography, users, and business unit. The vast majority of our software license customers also purchase software license updates and product support, generally for a period of two years. Software license updates include unspecified software updates and enhancements on a when and if available basis, maintenance releases, and patches released during the term of the support period.

We also offer some of our solutions as Software-as-a-Service ("SaaS"). Our SaaS offerings generally provide customers access to certain of our software within a cloud-based IT environment that we manage and offer to customers on a subscription basis and allow our customers to reduce infrastructure, installation, and ongoing administration requirements. This model provides an alternative to our perpetual license sales model. We offer both single-tenant and multi-tenant solutions under our SaaS model via multi-year subscriptions with pricing generally based on the number of users, data volume or revenue managed by our software.

Our license, services and subscription revenue comprised 71%, 68% and 66% of our total revenue in fiscal 2014, 2013 and 2012, respectively. For a discussion of our revenue recognition policies and the impact of our licensing models on revenue, see Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, and Note 2 of the Notes to the Consolidated Financial Statements.

Big Data Solutions for Pricing and Sales Effectiveness

PROS pricing and sales effectiveness software solutions enable companies in the manufacturing, distribution and services industries to analyze, optimize and execute sales, pricing, quoting and rebate strategies. PROS big data solutions for pricing and sales effectiveness include the following solutions:

Scientific Analytics helps companies gain insight into their sales and pricing performance by applying data science, allowing them to take action to improve overall performance and take advantage of time-sensitive opportunities. Price Optimizer streamlines pricing processes and creates pricing policy controls to support corporate business goals. Price Optimizer allows organizations to apply data science to create multiple segment-specific rules-based price lists and quickly modify prices or guidelines in response to changing conditions, including market volatility or changes in business strategy.

Deal Optimizer applies data science to recommend optimized prices and products on a transaction-specific basis for sales representatives in negotiated transaction environments, tailored to the unique characteristics of the customer transaction. Deal Optimizer provides insight into customer buying behavior, enabling companies to better match offers to each of their customers' unique perception of value.

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Sales Optimizer provides sales people with a 360-degree view into a customer's business. By handling all forms of a company's commercial transactions, including contracts, quotes, bids, price lists and rebates, Sales Optimizer provides insights into a customer's book of business so it is able to make more informed decisions.

Cameleon CPQ is a mobile, intelligent quoting solution designed to provides sales people or customers with the right questions to quickly identify the products and/or services that best meet the customers needs and prepare a quote featuring the correct combination of products/services at the optimum price, as well as identity cross-sell and up-sell opportunities to increase the value to the company. Cameleon CPQ helps companies (in both business-to-consumer (B2C) and business-to-business (B2B) sales environments) close deals faster through automation, data science, analytics, pricing guidance and execution by providing an intelligent pricing engine, proposal generator, quoting system, and rule engine complemented by approval workflows.

Our solution architecture allows our customers to deploy all of these solutions either simultaneously or sequentially. These solutions provide businesses with tools and processes to help:

Provide sales negotiation guidance encompassing pricing, cross-sell and upsell opportunities using a foundation of data science;

Establish pricing strategies that optimize product and account price points based on revenue, margin and/or market share goals;

Benchmark sales opportunities to peer groups based on relevant metrics, including willingness to pay;

Identify underperforming products and at-risk accounts to allow timely corrective action;

Analyze key revenue and margin drivers, including price, cost, volume, product mix and exchange rates;

Benchmark sales, pricing, and rebate performance and market conditions against performance goals;

Create and manage pricing, rebate and discounting policies aligned with corporate strategies; and

Automate quoting and pricing approval workflow to ensure consistency and auditability.

Big Data Solutions for Resource-Driven and Commodity-Based Companies

PROS manufacturing optimization software solutions enable companies in the agri-business, food and mill product industries to analyze and optimize capacity planning, mix, blend and pricing decisions. PROS big data solutions for commodity based manufacturers include the following solutions:

EnterpriseOptimizer enables manufacturers to optimize business performance through improved margins and profitability by recommending the ideal mix of customers and channels to sell to and the best price for each as well as an optimized product formulation, purchase plan and product mix that maximizes margins under changing market conditions.

MixOptimizer allows manufacturers to coordinate raw material inputs, inventory, production capacity and demand forecasts to optimize product and channel mix.

CapacityOptimizer allows asset intensive manufacturers to maximize capacity utilization and the margin per capacity unit of their facilities by defining the percentage of product that should be sold in advance, helping ensure product availability for key customers, and minimizing excess capacity.

MarginOptimizer allows manufacturers to maximize margin contribution based on products, time, channels and customer segments when selling to customers in highly volatile markets.

BlendOptimizer allows process manufacturers to forecast raw material prices across various time horizons to optimize the blend of component materials to help deliver finished goods at the lowest possible cost.

Big Data Solutions for Revenue Management for Travel Industry Companies

PROS revenue management solutions are a set of integrated software solutions that enable enterprises in the travel industry, including the airline, hotel and cruise industries, to drive revenue and profit-maximizing business strategies

through the application of advanced forecasting and optimization technologies and decision-support capabilities. PROS big data solutions for revenue management include the following solutions:

PROS Analytics for Airlines identifies hidden revenue opportunities; PROS Revenue Management manages passenger demand with either leg- or segment-based revenue management;

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PROS O&DTM manages passenger demand with passenger name record ("PNR"), based revenue management;

PROS Real-Time Dynamic Pricing™ determines optimal availability based on real-time evaluations;

PROS Group Revenue Management manages revenues related to group requests and bookings;

PROS Network Revenue Planning delivers network-oriented fare class segmentation;

PROS Availability Server provides real-time availability and pricing to distribution channels, and keeps rules, fares and other data synchronized and deployable across multiple data centers;

PROS Cruise Pricing and Revenue Management allows customers to understand their consumers price sensitivities, track competitor behavior, and quickly set prices and availability; and

PROS Hotel Revenue Management helps customers simplify, accelerate and improve pricing decision making.

These big data solutions provide businesses the tools and processes to help:

Maximize revenue and profitability;

Quickly adapt to changing market conditions and business objectives;

Differentiate customers by market and sales channel;

Effectively conduct real-time negotiations;

Monitor pricing and revenue management performance; and

Increase customer loyalty by providing the right products and services to the right customer at the right time.

Technology

Software Architecture. Our software architecture is based on open standards such as Java, HTML5, JavaScript, Flex, XML, and HTTP. We have created a component-based design in a service-oriented architecture to develop a flexible, layered framework. This framework supports parallel and independent evolution and innovation in technologies and product features.

Service-Oriented Architecture. A comprehensive web services interface is at the heart of our architecture. This interface enables extension onto other platforms and the creation of rich integrated solutions. It is also the foundation of our "PROS Everywhere" initiative to bring our solutions to the software (Microsoft Excel® and Microsoft SharePoint®) and hardware (Apple Inc.'s iPhone® and iPad®, Windows Phone®, BlackBerry®, and Android™ phones) tools that many businesses are already using.

Embedded Science. Our robust science-based capabilities such as forecasting, optimization, segmentation, and price guidance allow us to leverage the deep expertise and research of our science and research group in our solutions. These capabilities are industry-independent and are validated using our proprietary verification and testing processes.

Configuration vs. Custom Coding. Our solutions can be configured to meet each customer's business needs through configuration rather than custom code. The configuration capabilities define both a business layer (including definition of user workflows, executive dashboards, analytics views, calculations, approval processes and alerts), as well as a data layer that permits configuration of data structures, including hierarchical dimensions, pricing levels and measures. Much of the configuration can be performed by a business user without information technology personnel involvement. We preserve the configurations as part of an upgrade, allowing our customers to more easily upgrade to new versions of our solutions, when available.

Scalability. We leverage modern big data technologies such as MapReduce and Hadoop®, NoSQL databases such as Cassandra and MongoDB®, and in-memory and column-oriented data stores to scale to large data volumes and high user request rates. The scalability of our software solutions has been tested and validated by third-party vendor benchmark performance centers.

Data Integration. The data needed to execute and optimize sales, quoting, pricing, rebate and revenue management functionality typically resides in multiple sources, such as a company's enterprise resource planning ("ERP"), supply chain management ("SCM"), customer relationship management ("CRM"), reservations and inventory systems, and/or industry-specific transaction systems. In addition, productivity tools such as spreadsheets and external market data sources are common. Our data integration capabilities utilize web services and file-based data interfacing to bring data from disparate sources together into a single cohesive database, both in real time and through scheduled batch tasks. We also provide certified content for integration with SAP® and Oracle® as well as integration development services using industry standard tools.

User Interface. Our technology provides a rich, browser-based interface that supports both local and remote users. This interface supports a wide variety of interactive charts and other data views, and provides a comprehensive data security model

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based on user role and scope of responsibility. We also offer natively-developed capabilities for multiple mobile devices, tablet, CRM systems, and client applications.

Platform Support. Our software solutions run on most standard information technology platforms including Microsoft SQL Server and Oracle databases, 64-bit processors from Intel, AMD, IBM and Oracle, server hardware from HP, Dell, IBM and Oracle, the Windows, Linux, AIX and Solaris operating systems, and virtualization technologies such as VMware. Our solutions can be deployed on-premises in our customers' data centers or hosted in our private data centers. We also have solutions which are deployed natively in the Salesforce.com CRM environment and on Microsoft Windows Azure.

Services

We also provide software-related professional services, including implementation and configuration services, consulting and training.

Implementation and configuration

Our software solution implementations have a standardized and tested implementation process developed through years of experience implementing our software solutions in global enterprises across multiple industries. Our professional services team works closely with our customers to develop an integrated project plan to help them accelerate time to value. Pursuant to these plans, we provide technical deployment, integration, deployment support, and configuration services related to our solutions. We also assist customers in loading and validating data and supporting organizational activities to assist our customers' transition from awareness of their pricing challenges to adoption of pricing excellence best practices. In addition to our own internal professional services team, we also work with a team of globally diverse partners who have been certified to implement our software and are experienced in implementing PROS software solutions.

Consulting

Our consulting services include discovery and insight consulting to analyze a customer's current pricing processes and data, identifying and prioritizing specific high-value pricing opportunities, and recommending pricing best practices and strategic pricing services. We also offer change management, pricing process redesign, pricing organizational design, opportunity assessment and performance management consulting. These consulting services enhance our partnerships with our customers and help them achieve their specific pricing goals. Training

We offer training to both our customers and partners to increase the knowledge and skills to deploy and use the full functionality of our software solutions. We offer an array of live and virtual classroom training, as well as tailored, private on-site classroom training. Our courses include training on all aspects of our software solutions, from introductory on-demand mini-courses to multi-day hands-on deep technical classroom sessions. Maintenance and support

We offer ongoing maintenance and support services for our software solutions using a global model to support our customers across major geographies. Maintenance enrollment entitles a customer to solicit support through a web-based interface which allows the customer to submit and track issues, access our online knowledge base and receive unspecified upgrades, maintenance releases and bug fixes during the term of the support period on a when-and-if-available basis. In addition, our customer support personnel responds to customer issues promptly using an escalation process that prioritizes reported issues based on a defined set of severity levels, as well as assists customers in deploying our standard releases for each software solution by providing release web seminars and documentation. Maintenance fees are an important source of recurring revenue, and we invest significant resources in

providing these services. Revenue from maintenance and support services comprised 29%, 32%, and 34% of our total revenue in 2014, 2013 and 2012, respectively. SaaS and Cloud-based services

Our SaaS offerings generally provide customers access to certain of our software within a cloud-based IT environment that we manage and offer to customers on a subscription basis and allow our customers to reduce infrastructure, installation, and ongoing administration requirements. We also offer cloud-based services to allow customers to deploy our big data software solutions without any significant investment in hardware. Our cloud-based services offerings provide customers who have already

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purchased licenses to our software to have access to that software within a cloud-based IT environment that we manage to allow those customers to reduce infrastructure, installation, and ongoing administration requirements. This model provides an alternative to an on-premise deployment for our customers. We generally offer these services via one to three year contracts with pricing based on the data volumes and service levels requested.

Customers

We sell our software solutions to customers across more than 40 industries, including agri-business, airlines, cargo, chemical, consumer goods, equipment rental, food, food service, high tech, hotels, industrial, medical, mill products, petroleum, and service parts. Our customers are generally large global enterprises, although we also have customers that are much smaller in scope of operations. In each of 2014, 2013 and 2012, we had no single customer that accounted for 10% or more of revenue.

Backlog

Our backlog is derived from agreements that we believe to be firm commitments to provide software solutions and related services in the future. Our backlog includes deferred revenue and can vary significantly from period to period depending on a number of factors including the timing of our sales and the nature of the agreements we enter into with our customers.

Our backlog is significantly based on estimates and judgments that we make regarding total contract values. For example, we have agreements that include non-standard provisions which require us to exercise judgment over the extent to which to include these agreements in our backlog. However, based on our history of successfully implementing our software solutions, we generally include the full estimated value of these agreements in backlog.

We make significant estimates and judgments regarding maintenance renewals and changes to existing maintenance and support agreements. Backlog includes committed maintenance and amounts under maintenance and support agreements that we reasonably expect to renew.

We compute our backlog as of a specific date, and we update our backlog to reflect changes in our estimates and judgments or subsequent additions, delays, terminations or reductions in our agreements. We also have agreements denominated in foreign currencies, and variation in currency exchange rates can influence our calculation of backlog. We compute backlog using then-existing currency exchange rates and we update backlog to reflect changes in these rates.

For these and other reasons, our backlog may not be a meaningful indicator of future revenue to be recognized in any particular quarter, and there can be no assurance that our backlog at any point in time will translate into revenue in any specific quarter.

We had backlog of approximately \$194.0 million as of December 31, 2014 as compared to backlog of approximately \$175.1 million as of December 31, 2013. The portion of our backlog as of December 31, 2014 not reasonably expected to be recognized as revenue within the next twelve months is estimated to be approximately \$57.5 million.

Sales and marketing

We sell and market our software solutions primarily through our direct global sales force and indirectly through resellers and systems integrators. Our sales force is organized by our target markets of manufacturing, distribution, services and travel, and is responsible for the worldwide sale of our solutions to new and existing customers. Our sales force works in concert with our solutions personnel for selling and providing solution demonstrations to new customers.

Our marketing activities consist of a variety of programs designed to generate sales leads and build awareness of our big data software solutions. We host conferences for sales, pricing, and revenue management professionals, host informational web seminars and participate in and sponsor other industry and trade conferences and organizations.

International operations

We are a global company that conducts sales, sales support, professional services, product development and support, and marketing around the world. Our headquarters are located in Houston, Texas, and, as of December 31, 2014, we also have offices in London, England; Paris, France; Toulouse, France; Munich, Germany; San Francisco, California; Skokie, Illinois; and Austin, Texas. We also conduct development activities predominantly in France and the United States, and utilize third-party contractors in Bolivia, China, Colombia and India. We plan to expand our operations in international locations to meet the strategic objectives of our business.

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Approximately 56%, 55%, and 56% of our total revenue came from customers outside the United States for the years ended December 31, 2014, 2013 and 2012, respectively. Our business, financial condition and results of operations could be adversely impacted by factors, including currency fluctuations or regulatory, political, social and economic developments or instability in the foreign jurisdictions in which we operate. For additional financial information about geographic areas, see Note 16 of the Notes to the Consolidated Financial Statements.

Seasonality

We tend to experience a higher volume of transactions in the quarter ended December 31, which is our fourth fiscal quarter, and to a lesser extent, during other fiscal quarters.

Competition

The market for big data applications that optimize sales, pricing, quoting, rebates, and revenue management is competitive, fragmented and rapidly evolving. For example, we believe the market for pricing software is converging with sales effectiveness software, as sales personnel are increasingly becoming the day to day users of both types of software. We have begun, and expect to continue, to compete with companies in sales enablement. In recent years, our competition has increased as we have expanded into adjacent technologies.

We believe our customers include the following factors when evaluating us against our competition:

Large and referenceable global customer base;

Industry domain expertise;

Domain management best practices expertise and delivery;

Ability for users to configure the solution to their needs;

Depth of expertise in data and pricing science;

Real-time solutions;

Proven benefits of return on investment, total cost of ownership, and time-to-value;

Organizational change management expertise;

Product architecture, functionality, performance, reliability and scalability;

Ability to offer integrated high-value solutions;

Breadth and depth of product and service offerings;

Services and customer support quality;

Size and quality of partner ecosystem;

Existing customer relationships; and

Vendor viability.

We compete with a number of larger and smaller companies, which we estimate to be approximately 10 competitors. Most of our competitors compete against individual products of ours, rather than at a strategic level across multiple products. For example, Vendavo and Zilliant, compete against a portion of our pricing solutions. Others, such as Apptus, Oracle (through its acquisition of Big Machines), and SteelBrick compete against our sales effectiveness solutions. Yet others, such as Sabre Airline Solutions, Amadeus and Lufthansa Systems, compete against a portion of our big data solutions for revenue management in the airline industry. Several large enterprise application providers, such as JDA Software, Oracle and SAP, have developed offerings that include limited pricing and revenue management functionality. Our solutions also compete with solutions developed internally by businesses. These businesses generally rely on a combination of manual processes, external consultants, spreadsheets and internally-developed software tools.

We believe these competitors do not provide all of the functionality needed to support an organization interested in optimizing sales growth through data-driven pricing, rebates, quoting and revenue management. Some of these vendors have in the past, and may continue in the future, to compete on price and by bundling their pricing and

revenue management applications with other enterprise applications. We believe that we distinguish ourselves from these vendors through the breadth and depth of the functionality we offer, the robust integration and configuration capabilities of our solutions, and our proven ability to provide

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high-value science-based optimization software to our global customer base across multiple industries. In the future, we believe our competition will increase as more companies move into our market segment and as we expand into adjacent market segments.

Intellectual property and other proprietary rights

Our success and ability to compete is dependent in part on our ability to develop and maintain the proprietary aspects of our technology and operate without infringing upon the proprietary rights of others. Due to the rapidly changing nature of applicable technologies and recent changes in U.S. patent law, we believe that for the improvement of existing solutions and development of new solutions, reliance upon trade secrets and unpatented proprietary know-how are generally more advantageous than patent and trademark protection. We also rely on a combination of trade secrets, confidentiality procedures, contractual provisions, patents, trademarks, copyrights and other similar measures to protect our proprietary information.

Research and development

We believe our innovation with respect to our software solutions is a foundation of our business and accordingly have made substantial investments in research and development. We also believe that our long-term investment in the scientific analysis of pricing and revenue management differentiates us from our competitors. We are committed to developing high-value, science-based sales, pricing, and revenue management software solutions as evidenced by our continued investment in research and development. In fiscal 2014, 2013 and 2012, we recognized expenses of \$43.2 million, \$32.5 million and \$27.6 million, respectively, in research and development to enhance our existing portfolio of solutions and to develop new solutions. Our research and development expenses include costs associated with our product management, product development and science and research groups. We conduct research and development activities predominantly in the United States and to a lesser extent in France.

We employ scientists, most of whom are Ph.D.s, to advance sales, pricing, and revenue management technology and its implementation in our software solutions. These scientists have specialties including, but not limited to, operations research, management science, statistics, econometrics, and computational methods. Our scientists regularly interact with our customers, product development, sales, marketing, and professional services staff to help keep our science efforts relevant to real-world demands.

Employees

As of December 31, 2014, we had 1,011 full time personnel which included 793 employees and 218 outsourced personnel. None of our employees are represented by a labor union or covered by a collective bargaining agreement. We have not experienced any work stoppages and consider our employee relations to be good.

Website

We maintain a website at www.PROS.com. No information on our website is incorporated by reference herein. We make available, free of charge through our website, our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, including exhibits thereto, and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act, as soon as reasonably practicable after the reports are electronically filed with or furnished to the SEC. Our reports that are filed with, or furnished to, the SEC are also available at the SEC's website at www.sec.gov. You may also read and copy any materials we file with the SEC, free of charge, at the SEC's Public Reference Room at 100 F Street, N.E., Washington, DC 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330.

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Annual CEO Certification

Pursuant to Section 303A.12(a) of the New York Stock Exchange ("NYSE") Listed Company Manual, we submitted to the NYSE an annual certification signed by our Chief Executive Officer certifying that he was not aware of any violation by us of NYSE corporate governance listing standards on June 6, 2014.

Item 1A. Risk Factors

We operate in a dynamic environment that involves numerous risks and uncertainties. The following section describes some of the risks that may adversely affect our business, financial condition or results of operations, and the trading price of our common stock; these risks are not necessarily listed in terms of their importance or level of risk.

Risks relating to our business and industry:

We may not be able to achieve our key initiatives and grow our business as anticipated.

While we currently intend to grow our business by pursuing key initiatives to broaden our product platform through internal development and acquisitions; increase our sales capacity by expanding our direct sales organization and developing our channel partnerships; expand our scale through system integrators; and employ marketing programs to increase awareness of our company and our big data products among existing and prospective customers, we may not be able to achieve these key initiatives. Our success depends on our ability to: appropriately manage our expenses as we grow our organization; identify or acquire companies or assets at attractive valuations; enter into and maintain beneficial channel relationships; develop new products; and successfully execute our marketing and sales strategies. If we are not able to execute on these actions, our business may not grow as we anticipate, and our operating results could be adversely affected.

As we expand our software product portfolio, we could face increased competition as part of entering new markets.

The market for our products is competitive, and we expect competition to increase in the future as we expand our product portfolio and features. We may not compete successfully against future potential competitors, especially those with significantly greater financial resources or brand name recognition. For example, we now compete with sales enablement, configure-price-quote and to a lesser extent, rebate management software. Large companies in these spaces may have advantages over us because of their greater brand name recognition, larger customer bases, broader product portfolios, larger distribution channels, or greater financial, technical and marketing resources. As a result, they may be able to adapt more quickly to new or emerging technologies and changes in customer requirements.

If our new products and product enhancements do not achieve sufficient market acceptance, our results of operations and competitive position could suffer.

We spend substantial amounts of time and money to enhance of our existing products, as well as to research and develop new products. We introduce new products and incorporate additional features, improve functionality or add other enhancements to our existing products in order to meet our customers' demands. Our new products or enhancements could fail to attain sufficient market acceptance for many reasons, including:

- •delays in introducing new, enhanced or modified products;
- •defects, errors or failures in any of our products;
- •inability to operate effectively with the networks of our prospective customers;
- •inability to protect against new types of attacks or techniques used by hackers;

- •negative publicity about the performance or effectiveness of our network security products;
- •reluctance of customers to purchase products based on open source software; and
- •disruptions or delays in the availability and delivery of our products.

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If our new products or enhancements do not achieve adequate acceptance in the market, our competitive position could be impaired, our revenue could be diminished and the effect on our operating results may be particularly acute because of the significant research and development, marketing, sales and other expenses we incurred in connection with the new product.

We focus primarily on big data sales, pricing and revenue management software, and if the markets for this software develop more slowly than we expect, our business could be harmed.

We derive most of our revenue from providing our sales, pricing and revenue management software solutions, implementation services and ongoing customer support. The sales and pricing market is evolving rapidly, and it is uncertain whether this software could achieve and sustain high levels of demand and market acceptance. Our success would depend on the willingness of businesses in the manufacturing, distribution, services industries to use sales and pricing software.

Some businesses may be reluctant or unwilling to implement sales and pricing software for a number of reasons, including failure to understand the potential returns of improving their processes and lack of knowledge about the potential benefits that such software may provide. Even if businesses recognize the need for improved sales and/or pricing processes, they may not select our solutions because they previously have made investments in internally developed solutions. Some businesses may elect to improve their pricing processes through solutions obtained from their existing enterprise software providers, whose solutions are designed principally to address functional areas other than pricing. These enterprise solutions may appeal to customers that wish to limit the number of software vendors on which they rely and the number of different types of solutions used to run their businesses.

If businesses do not embrace the benefits of sales and pricing software, the sales and pricing software market may not continue to develop or may develop more slowly than we expect, either of which would significantly and adversely affect our revenue and operating results. Because the sales and pricing software market is developing and the manner of its development is difficult to predict, we may make errors in predicting and reacting to relevant business trends, which could harm our operating results.

Competition from vendors of big data sales, pricing, revenue management and configure-price-quote solutions and enterprise applications as well as from companies internally developing their own solutions could adversely affect our ability to sell our solutions and could result in pressure to price our solutions in a manner that reduces our margins and harms our operating results.

The sales, pricing, revenue management and configure-price-quote software market is competitive and rapidly evolving. Our software solutions compete with both solutions developed internally by businesses as well as those solutions offered by competitors. We believe our principal competition consists of:

pricing, quoting, rebate and revenue management software vendors, including a number of vendors that provide such software for specific industries; and

large enterprise application providers that have developed offerings that include sales, pricing and revenue management functionality.

We expect additional competition from other established and emerging companies to the extent the sales, pricing, revenue management and configure-price-quote software market continues to develop and expand. We also expect competition to increase as a result of the entrance of new competitors in the market and industry consolidation, including through a merger or partnership of two or more of our competitors or the acquisition of a competitor by a larger company, such as Oracle through its acquisition of BigMachines. A number of our current and potential competitors have larger installed bases of users, longer operating histories, broader distribution and greater name recognition than we have. In addition, many of these companies have significantly greater resources than we have. As

a result, these companies may be able to respond more quickly to new or emerging technologies and changes in customer demands and devote greater resources to the development, promotion and sale of their products.

Competition could seriously impede our ability to sell our software solutions and services on terms favorable to us. We do not know how our competition could set prices for their products. Businesses may internally develop solutions, rather than invest in commercially-available solutions. Our current and potential competitors may develop and market new technologies that render our existing or future solutions obsolete, unmarketable or less competitive. In addition, if these competitors develop solutions with similar or superior functionality to our solutions, or if they offer solutions with similar functionality at a substantially lower price than our solutions, we may need to decrease the prices for our solutions in order to remain competitive. If we are unable to maintain our current solutions, services and maintenance pricing due to competitive pressures, our margins could be reduced and our operating results could be adversely affected. We cannot provide assurance that we would be able to compete successfully against current or future competitors or that competitive pressures could not materially and adversely affect our business, financial condition and operating results.

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If our security measures are breached and unauthorized access is obtained to a customer's data or our data or our IT systems, our solutions may be perceived as not being secure, customers may curtail or stop using our solutions and/or we may incur significant legal and financial exposure and liabilities.

Our solutions and services involve the storage, and to a more limited extent, the transmission of our customers' proprietary information. Despite the implementation of security measures, these systems may still be vulnerable to data theft, computer viruses, malicious software programs, programming errors, attacks by third parties or similar disruptive problems, and could result in someone obtaining unauthorized access to our customers' data or our data, including our intellectual property and other confidential business information, or our IT systems. Because the techniques used to compromise systems change frequently and may not be recognized until launched, we may be unable to anticipate these techniques or to implement adequate preventative measures. Malicious third-parties may also conduct attacks designed to temporarily deny customers access to our services. Any security breach could result in a loss of confidence in the security of our solutions and services, damage our reputation, negatively impact our future sales, disrupt our business, increase our information security costs, and lead to legal liability.

We are subject to a lengthy sales cycle and delays or failures to complete sales may harm our business and cause our revenue and operating income to decline in the future.

Our sales cycle may take several months to over a year. To sell our solutions successfully and obtain an executed contract, we often have to educate our potential customers about the benefits of our solutions. We expend substantial resources during our sales cycles with no assurance that a sale may ultimately result. The length of each individual sales cycle depends on many factors, a number of which we cannot control. These factors include the customer's requirements, the level of competition we face for that customer's business, and the customer's internal approval processes. Any unexpected lengthening of the sales cycle or failure to secure anticipated orders could negatively affect our revenue. Furthermore, a delay in our ability to obtain a signed agreement or to complete certain contract requirements in a particular quarter could materially reduce our revenue in that quarter. Any significant failure to generate revenue or delays in recognizing revenue after incurring costs related to our sales or services process could also have a material adverse effect on our business, financial condition and results of operations.

Any unauthorized, and potentially improper, actions of our personnel could adversely affect our business, operating results and financial condition.

The recognition of our revenue depends on, among other things, the terms negotiated in our contracts with our customers. Our personnel may act outside of their authority and negotiate additional terms without our knowledge. We have implemented policies to help prevent and discourage such conduct, but there can be no assurance that such policies would be followed. For instance, in the event that our sales personnel negotiate terms that do not appear in the contract and of which we are unaware, whether such additional terms are written or verbal, we could be prevented from recognizing revenue in accordance with our plans. Furthermore, depending on when we learn of unauthorized actions and the size of the transactions involved, we may have to restate revenue for a previously reported period, which could seriously harm our business, operating results and financial condition.

We made our first two acquisitions in late 2013 and early 2014, and in the future may continue to enter into acquisitions that may be difficult to integrate, fail to achieve our strategic objectives, disrupt our business, dilute stockholder value or divert management attention.

We made our first two acquisitions in late 2013 and early 2014, and in the future may continue to acquire businesses, technologies and products that we intend to complement our existing business, solutions, services and technologies. We cannot provide assurance that the acquisitions we have made or may make in the future could provide us with the benefits or achieve the results we anticipated when entering into the transaction. Acquisitions are typically accompanied by a number of risks, including:

difficulties in integrating the operations and personnel of the acquired companies;

difficulties in maintaining acceptable standards, controls, procedures and policies, including integrating financial reporting and operating systems, particularly with respect to foreign and/or public subsidiaries;

disruption of ongoing business and distraction of management;

inability to maintain relationships with customers of the acquired business;

impairment of relationships with employees and customers as a result of any integration of new management and other personnel;

difficulties in incorporating acquired technology and rights into our solutions and services; unexpected expenses resulting from the acquisition; and

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potential unknown liabilities associated with the acquisition.

In addition, we may incur debt, acquisition-related costs and expenses, restructuring charges and write-offs as a result of acquisitions. Acquisitions may also result in goodwill and other intangible assets that are subject to impairment tests, which could result in future impairment charges.

Our recent acquisitions have required, and may continue to require, significant management time and attention during the finalization of the integration processes.

We may enter into negotiations for acquisitions that are not ultimately consummated. Those negotiations could result in diversion of management time and significant out-of-pocket costs. If we fail to evaluate and execute acquisitions successfully, we may not be able to achieve our anticipated level of growth and our business and operating results could be adversely affected.

If we are not able to manage our anticipated growth effectively, our operating costs could increase and our operating margins could decrease.

We have grown our infrastructure to build out our offerings as well as to accommodate our acquisitions and expect to continue to grow our infrastructure to ensure that our current and future offerings remain competitive as well as to address other potential additional business combinations. Our growth may place, to the extent that we are able to sustain such growth, a strain on our management, administrative, operational and financial infrastructure. If we continue to grow our operations, we may not be effective in enlarging our physical facilities, systems, procedures and internal controls may not be adequate to support such expansion. If we are unable to manage our growth, our operating costs could increase and our operating margins could decrease.

Any downturn in sales to our target markets could adversely affect our operating results.

Our success is highly dependent upon our ability to sell our software solutions to customers in the manufacturing, distribution, services, and travel industries. If we are unable to sell our software solutions effectively to customers in these industries, we may not be able to grow our business. It is uncertain whether our software solutions may achieve and sustain the levels of demand and market acceptance that we anticipate. Such uncertainty is attributable to, among other factors, the following:

it may be more difficult than we currently anticipate to implement our software solutions in certain verticals within our target industries;

•t may be more difficult than we currently anticipate to increase our customer base in our target industries; and our limited experience implementing our software solutions in certain verticals within our target industries. Our revenue growth has historically been derived from customers in many major industries. Our revenue growth is highly dependent upon continued growth of market acceptance in these industries, and there can be no assurance our solutions may achieve or sustain widespread acceptance among customers in these industries. Failure to expand market acceptance of our solutions or maintain sales in these industries could adversely affect our operating results and financial condition.

Our software solutions require implementation projects that are subject to significant risks and delays, which if any occurred could negatively impact the effectiveness of our software, resulting in harm to our reputation, business and financial performance.

The implementation of our software solutions can involve complex, large-scale projects that require substantial support operations, significant resources and reliance on factors that are beyond our control. For example, the success of our implementation projects is heavily dependent upon the quality of data used by our software solutions, the commitment of customers' resources and personnel to the projects, and the stability, functionality and scalability of the

customer's information technology infrastructure. We may not be able to correct or compensate for weaknesses or problems in infrastructure or data, or any lack of our customers' commitment and investment in personnel and resources. In addition, implementation of our software solutions can be highly complex and require substantial efforts and cooperation on the part of our customers. If we are unable to successfully manage the implementation of our software solutions such that those products do not meet customer needs or expectations, we may become involved in disputes with our customers and our business, reputation and financial performance may be significantly harmed. For projects accounted for under the percentage-of-completion method, we recognize our license and implementation revenues as implementation services are performed. Any delays in an implementation project or changes in the scope or timing of an implementation project would delay or alter the corresponding revenue recognition and could adversely affect our operating results. In addition, any delays or changes in scope could result in estimated project costs exceeding contracted revenue of which a loss reserve would need to be established which would have an adverse effect on our operating results. If an implementation

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project for a large customer or a number of customers is substantially delayed or canceled, our ability to recognize the associated revenue and our operating results could be adversely affected.

If our executives and other key personnel are unable to effectively manage our business, or if we fail to attract additional qualified sales, marketing, professional services, product development and other personnel, our revenue and operating results could be adversely affected.

Our future success depends upon the performance and service of our executive officers and other key sales, marketing, development, science and professional services staff. The failure of our executives and key personnel to effectively manage our business or the loss of the services of our executive officers and other key personnel would harm our operations. In addition, our future success could depend in large part on our ability to attract and retain a sufficient number of highly qualified sales, marketing, professional services, product development and other personnel, and there can be no assurance that we may be able to do so. We have continued to add a significant number of new personnel to support our continued growth, and their ability to learn our business and manage it effectively could be important to our continued growth and expansion. In addition, given the highly sophisticated data science included in our solutions, the pool of data scientists and software developers qualified to work on our solutions is limited. The implementation of our software solutions requires highly-qualified personnel, and hiring and retaining such personnel to support our growth may be challenging. Competition for such qualified personnel is intense, and we compete for these individuals with other companies that have greater financial, technical, marketing, service and other resources than we do. If our key personnel are unable to effectively manage our business, or if we fail to attract additional qualified personnel, our operating results could be adversely affected.

Deterioration of general U.S. and global economic conditions could adversely affect our sales and operating results.

We are a global company with customers around the world. Global financial markets have experienced extreme disruption in recent years, including, among other factors, extreme volatility in security prices, limited ability to raise capital in public and private financial markets, severely diminished liquidity, credit unavailability and company rating downgrades. These conditions have a negative impact on our prospects' and customers' ability to raise capital and operate their businesses.

The implementation of our software solutions, which are often accompanied by third-party hardware purchases and other capital commitments, can involve significant capital expenditure by our customers. Customers may reduce or defer their spending on technology. Customers may also elect to purchase our solutions via SaaS or term licenses, which could adversely impact our liquidity and/or result in the deferral of revenue over the contractual service period. In addition, the weak and uncertain U.S. and global economic conditions could impair our customers' ability to pay for our products or services. Any of these factors could delay our revenue recognition or otherwise adversely impact our business overall results and financial condition.

Periodic fluctuations in the U.S. Dollar and other currencies, corporate profits, lower spending, the impact of conflicts throughout the world, terrorist acts, natural disasters, volatile energy costs, the outbreak of diseases and other geopolitical factors have had, and may continue to have, a negative impact on the U.S. and global economies. We are unable to predict the strength, duration or impact of current market conditions.

A significant or prolonged economic downturn in industries in which we focus may result in our customers or prospects reducing or postponing spending on the solutions we offer.

There are a number of factors, other than our performance, that could affect the size, frequency and renewal rates of our customer contracts. For instance, if economic conditions weaken in any industry in which our customers or prospects are focused, our customers or prospects may reduce or postpone their spending significantly which may, in turn, lower the demand for our solutions and negatively affect our revenue and profitability. As a way of dealing with a challenging economic environment, customers may change their purchasing strategies, including, in some instances,

requesting term licenses or SaaS agreements as opposed to perpetual license agreements, increased negotiation of price, deciding to license one solution rather than multiple solutions or licensing solutions for portions of their business. Customers could also terminate or delay their implementations or maintenance contracts. Change in license terms or the loss of, or any significant decline in business from, our customers may lead to a significant decline in our revenue and operating margins, particularly if we are unable to make corresponding reductions in our expenses in the event of any such loss or decline. Moreover, a significant change in the liquidity or financial position of our customers could have a material adverse effect on the collectability of our accounts receivable, liquidity and future operating results.

We incurred indebtedness by issuing Senior notes, and our debt repayment obligations may adversely affect our financial condition and cash flows from operations in the future.

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In December 2014, we issued \$143.8 million aggregate principal amount of 2.0% convertible senior notes (the "Senior Notes") due December 1, 2019, unless earlier purchased or converted. Interest is payable semiannually in arrears on June 1 and December 1 of each year, commencing on June 1, 2015. Our indebtedness could have important consequences because it may impair our ability to obtain additional financing in the future for working capital, capital expenditures, acquisitions and general corporate or other purposes, and a portion of our cash flows from operations may have to be dedicated towards repaying the principal beginning in 2019 or earlier if necessary. Our ability to meet our debt obligations will depend on our future performance, which will be affected by financial, business, economic, regulatory and other factors. We cannot control many of these factors. Our future operations may not generate sufficient cash to enable us to repay our debt. If we fail to make a payment on our debt, we could be in default on such debt. If we are at any time unable to pay our indebtedness when due, we may be required to renegotiate the terms of the indebtedness, seek to refinance all or a portion of the indebtedness or obtain additional financing. There can be no assurance that, in the future, we will be able to successfully renegotiate such terms, that any such refinancing would be possible or that any additional financing could be obtained on terms that are favorable or acceptable to us.

A weakening economy and changing business conditions could result in substantial defaults or slowing of payments by our customers on our accounts receivable which could have a significant negative impact on our business, results of operations, financial condition or liquidity.

A significant portion of our working capital consists of accounts receivable from customers. If customers responsible for a significant amount of accounts receivable were unable to pay for solutions and services, or were to become unwilling or unable to make payments in a timely manner, our business, results of operations, financial condition or liquidity could be adversely affected.

Our revenues, and in particular our software license revenues, vary each quarter and are difficult to predict.

Revenues from license fees in any quarter depend substantially upon our licensing activity with new and existing customers, and our ability to recognize revenues in that quarter under our revenue recognition policies. A delay or deferral in a small number of new software license transactions could cause our quarterly license revenue to fall significantly short of our expectations.

The period over which we recognize license and implementation revenue for each customer depends on a variety of factors, including the number of licensed software solutions and the scope and complexity of the customer's deployment requirements. As a result, a majority of our revenue is recognized on arrangements that were executed in previous periods. Any shortfall in new sales of our software solutions may not be reflected in our revenue for several quarters, and as such the adverse impact on our business may not be readily apparent.

For projects accounted for on a percentage-of-completion method, our revenue recognition is primarily based upon our ability to estimate the efforts required to complete our implementation projects, which may be difficult to estimate.

Timing of revenue recognition on our contractual arrangements varies based on the nature of the performance obligations in each contract and the associated contract terms. For projects accounted for on a percentage-of-completion method, our ability to estimate the effort required to complete our implementation may be difficult to estimate.

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. 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, in particular those related to revenue recognition, 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 and accounting systems.

The Financial Accounting Standards Board ("FASB") is currently working with the International Accounting Standards Board ("IASB") to converge certain accounting principles and to 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"). These projects may result in different accounting principles under U.S. GAAP, which may have a material impact on the way in which we report financial results in areas including, but not limited to, principles for recognizing revenue, lease accounting, and financial statement presentation. In connection with this initiative, the FASB issued a new accounting standard for revenue

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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.

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.

Failure to sustain our historical maintenance, support, and subscription renewal rates and pricing would adversely affect our operating results.

Maintenance, support, and subscription agreements are typically for a term of one to three years. Historically, maintenance and support revenue has represented a significant portion of our total revenue, including approximately 29%, 32% and 34% of our total revenue for the years ended December 31, 2014, 2013 and 2012, respectively. Subscription revenue has represented approximately 13%, 6% and 8% of our total revenue for the years ended December 31, 2014, 2013 and 2012, respectively. If our customers choose not to renew their maintenance, support and subscription agreements with us on favorable terms or at all, our business, operating results and financial condition could be harmed.

We might not generate increased business from our customers, which could limit our revenue in the future.

We sell our software solutions to both new customers and existing customers. Many of our existing customers initially purchase our software solutions for a specific business segment or a specific geographic location within their organization and later purchase additional software solutions for the same or other business segments and geographic locations within their organization. These customers might not choose to make additional purchases of our software solutions or to expand their existing software solutions to other business segments. In addition, as we deploy new applications and features for our software solutions or introduce new software solutions, our current customers could choose not to purchase these new offerings. If we fail to generate additional business from our existing customers, our revenue could grow at a slower rate or even decrease.

If our cost estimates for fixed-fee arrangements do not accurately anticipate the cost and complexity of implementing our software solutions, our profitability could be reduced and we could experience losses on these arrangements. Historically, a portion of our implementation arrangements were priced on a fixed-fee basis, and we may price implementation arrangements on a fixed-fee basis in the future. If we underestimate the amount of effort required to implement our software solutions under these fixed-fee arrangements, our profitability could be reduced. Moreover, if the actual costs of completing the implementation exceed the agreed upon fixed price, we could incur a loss on the arrangement.

If we fail to develop or acquire new functionality to enhance our existing software solutions, we may not be able to grow our business and it could be harmed.

The sales, pricing and revenue management software market is characterized by:

rapid technological developments;

newly emerging and changing customer requirements; and

frequent solution introductions, updates and functional enhancements.

We must introduce enhancements to our existing software solutions in order to meet our business plan, maintain or improve our competitive position, keep pace with technological developments, satisfy increasing customer requirements and increase awareness of big data software for sales, pricing and revenue management generally and of our software solutions in particular. Any new functionality we develop may not be introduced in a timely manner and may not achieve market acceptance sufficient to generate material revenue. Furthermore, we believe that our

competitors are heavily investing in research and development, and may develop and market new solutions that may compete with, and may reduce the demand for, our software solutions. We cannot provide assurance that we could be successful in developing or otherwise acquiring, marketing and licensing new functionality, or delivering updates and upgrades that meet changing industry standards and customer demands. In addition, we may experience difficulties that could delay or prevent the successful development, marketing and licensing of such functionality. If we are unable to develop or acquire new functionality, enhance our existing software solutions or adapt to changing industry requirements to meet market demand, we may not be able to grow our business and our revenue and operating results would be adversely affected.

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In addition, because our software solutions are intended to operate on a variety of technology platforms, we must continue to modify and enhance our software solutions to keep pace with changes in these platforms, as well as develop and maintain relationships with platform providers. Any inability of our software solutions to operate effectively with existing or future platforms, or our inability to develop or maintain relationships with significant platform providers, could reduce the demand for our software solutions, result in customer dissatisfaction and limit our revenue.

Our big data software solutions require hardware to operate which may be difficult for our customers to obtain.

The implementation of our big data software solutions often requires specific hardware to operate. The inability of our customers' to access and secure such hardware could impact the effectiveness of our software and result in harm to our reputation if the software does not operate properly due to the unavailability of the necessary hardware. If businesses do not implement our software due to their inability to obtain the hardware needed for our software, our business, results of operations and financial condition could be adversely affected.

Defects or errors in our software solutions could harm our reputation, impair our ability to sell our solutions and result in significant costs to us.

Our software solutions are complex and may contain undetected defects or errors. Several of our solutions have recently been developed and may therefore be more likely to contain undetected defects or errors. In addition, we frequently develop enhancements to our software solutions that may contain defects. We have not suffered significant harm from any defects or errors to date. We have in the past issued, and may in the future need to issue, corrective releases of our solutions to correct defects or errors, but we may not be able to detect and correct any such defects or errors before the final implementation of our software solutions. The occurrence of any defects or errors could result in:

delayed market acceptance and lost sales of our software solutions;

delays in payment to us by customers;

injury to our reputation;

diversion of our resources;

legal claims, including product liability claims, against us;

increased maintenance and support expenses; and

increased insurance costs.

Our license agreements with our customers typically contain provisions designed to limit our liability for defects and errors in our software solutions and damages relating to such defects and errors, but these provisions may not be enforced by a court or otherwise effectively protect us from legal claims. Our liability insurance may not be adequate to cover all of the costs resulting from these legal claims. Moreover, we cannot provide assurance that our current liability insurance coverage would continue to be available on acceptable terms. In addition, the insurer may deny coverage on any future claims. The successful assertion against us of one or more large claims that exceeds available insurance coverage, or the occurrence of changes in our insurance policies, including premium increases or the imposition of large deductible or co-insurance requirements, could have a material adverse effect on our business and operating results. Furthermore, even if we prevail in any litigation, we are likely to incur substantial costs and our management's attention may be diverted from our operations.

Intellectual property litigation and infringement claims may cause us to incur significant expense or prevent us from selling our software solutions.

Our industry is characterized by the existence of a large number of patents, trademarks and copyrights, and by frequent litigation based on allegations of infringement or other violations of intellectual property rights. A third-party may assert that our technology violates its intellectual property rights, or we may become the subject of a material intellectual property dispute. Sales, pricing and revenue management solutions may become increasingly subject to infringement claims as the number of commercially available sales, pricing and revenue management solutions

increases and the functionality of these solutions overlaps. In addition, changes in patent laws in the U.S. may affect the scope, strength and enforceability of our patent rights or the nature of proceedings which may be brought by us related to our patent rights. Future litigation may involve patent holding companies or other adverse patent owners who have no relevant product revenue and against whom our own potential patents may therefore provide little or no deterrence. Regardless of the merit of any particular claim that our technology violates the intellectual property rights of others, responding to such claims may require us to:

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incur substantial expenses and expend significant management efforts to defend such claims;

pay damages, potentially including treble damages, if we are found to have willfully infringed such parties' patents or copyrights;

cease making, licensing or using products that are alleged to incorporate the intellectual property of others;

distract management and other key personnel from performing their duties for us;

enter into potentially unfavorable royalty or license agreements in order to obtain the right to use necessary technologies; and

expend additional development resources to redesign our solutions.

Any licenses required as a result of litigation under any patent may not be made available on commercially acceptable terms, if at all. In addition, some licenses may be nonexclusive, and therefore our competitors may have access to the same technology licensed to us. If we fail to obtain a required license or are unable to design around a patent, we may be unable to effectively develop or market our solutions, which could limit our ability to generate revenue or maintain profitability.

Contract terms generally obligate us to indemnify our customers for their use of the intellectual property associated with our software or for other third-party products that are incorporated into our solutions and that infringe the intellectual property rights of others. If we are unable to resolve our legal obligations by settling or paying an infringement claim or a related indemnification claim as described above, we may be required to compensate our customers under the contractual arrangement with such customers. Some of our intellectual property indemnification obligations are contractually capped at a very high amount or not capped at all.

If we fail to protect our proprietary rights and intellectual property adequately, our business and prospects may be harmed.

Our success could depend in part on our ability to protect our proprietary methodologies and intellectual property. We rely upon a combination of trade secrets, confidentiality policies, nondisclosure and other contractual arrangements, and patent, copyright and trademark laws to protect our intellectual property rights. We cannot, however, be certain that steps we take to protect our proprietary rights could prevent misappropriation of our intellectual property, or the development and marketing of similar and competing products and services by third parties.

We rely, in some circumstances, on trade secrets to protect our technology. Trade secrets, however, are difficult to protect. In addition, our trade secrets may otherwise become known or be independently discovered by competitors, and in such cases, we could not assert such trade secret rights against such parties. We seek to protect our proprietary technology and processes, in part, by confidentiality agreements with our employees, consultants, customers, scientific advisor's and other contractors. These agreements may be breached, and we may not have adequate remedies for any such breach. To the extent that our employees, consultants or contractors use intellectual property owned by others in their work for us, disputes may arise as to the rights in related or resulting know-how and inventions. The patent position of technology-oriented companies, including ours, is generally uncertain and involves complex legal and factual considerations. The standards that the United States Patent and Trademark Office use to grant patents are not always applied predictably or uniformly and can change. Accordingly, we do not know the degree of future protection for our proprietary rights or the breadth of claims allowed in any patents that may be issued to us or to others. Our patents may not contain claims sufficiently broad to protect us against third parties with similar technologies or products, or provide us with any competitive advantage. Moreover, our patents and any patent for which we have licensed or may license rights may be challenged, narrowed, invalidated or circumvented. If our patents are invalidated or otherwise limited, other companies may be better able to develop products that compete with ours, which could adversely affect our competitive business position, business prospects and financial condition. Any patent application we submit may not result in an issued patent. Patent applications in the U.S. are typically not published until at least 18 months after filing or in some cases not at all, and publications of discoveries in industry-related literature lag behind actual discoveries. We cannot be certain that we were the first to invent the

technologies claimed in any pending patent applications or that we were the first to file for patent protection. Additionally, the process of obtaining patent protection is expensive and time-consuming, and we may not be able to prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. As a result, we may not be able to obtain adequate patent protection.

In addition, despite our efforts to protect our proprietary rights, unauthorized parties may be able to obtain and use information that we regard as proprietary. The issuance of a patent does not guarantee that it is valid or enforceable. As such, even

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if we obtain patents, they may not be valid or enforceable against third parties. In addition, the issuance of a patent does not guarantee that we have a right to practice the patented invention. Third parties may have blocking patents that could be used to prevent us from marketing or practicing our potentially patented products. As a result, we may be required to obtain licenses under these third-party patents. If licenses are not available to us on acceptable terms, or at all, we may not be able to make and sell our software solutions and competitors would be more easily able to compete with us.

We use open source software in our solutions that may subject our software solutions to general release or require us to re-engineer our solutions, which may cause harm to our business.

We use open source software in our solutions and may use more open source software in the future. From time to time, there have been claims challenging the ownership of open source software against companies that incorporate open source software into their products. As a result, we could be subject to lawsuits by parties claiming ownership of what we believe to be open source software. Some open source licenses contain requirements that we make available source code for modifications or derivative works we create based upon the open source software and that we license such modifications or derivative works under the terms of a particular open source license or other license granting third parties certain rights of further use. If we combine our proprietary software solutions with open source software in a certain manner, we could, under certain of the open source licenses, be required to release the source code of our proprietary software solutions. In addition to risks related to license requirements, usage of open source software can lead to greater risks than use of third-party commercial software, as open source licensor's generally do not provide warranties or controls on origin of the software. In addition, open source license terms may be ambiguous and many of the risks associated with usage of open source cannot be eliminated, and could, if not properly addressed, negatively affect our business. If we were found to have inappropriately used open source software, we may be required to seek licenses from third parties in order to continue offering our software, to re-engineer our solutions, to discontinue the sale of our solutions in the event re-engineering cannot be accomplished on a timely basis or take other remedial action that may divert resources away from our development efforts, any of which could adversely affect our business, operating results and financial condition.

We utilize third-party software that we incorporate into our software solutions, and impaired relations with these third parties, defects in third-party software or a third party's inability or failure to enhance their software over time could adversely affect our operating performance and financial condition.

We incorporate and include third-party software into our software solutions. If our relations with any of these third parties are impaired, or if we are unable to obtain or develop a replacement for the software, our business could be harmed. The operation of our solutions could be impaired if errors occur in the third-party software that we utilize. It may be more difficult for us to correct any defects in third-party software because the software is not within our control. Accordingly, our business could be adversely affected in the event of any errors in this software. There can be no assurance that these third parties may continue to invest the appropriate levels of resources in their products and services to maintain and enhance the capabilities of their software.

Our international sales, and the growth of our international operations, subject us to risks that may adversely affect our operating results.

International operations are subject to risks associated with operating outside of the United States. We may not be able to maintain or increase international market demand for our solutions. For the year ended December 31, 2014, 2013 and 2012, approximately 56%, 55% and 56% of our total revenue, respectively, was derived from outside the United States. We have customers in over 55 countries, and have operations in the United Kingdom, France and Germany (through wholly-owned subsidiaries). The financial impact of our international operations to our overall business has been insignificant to date. We expect our international operations to grow as the result of acquiring Cameleon in 2014. Managing overseas growth could require significant resources and management attention and may subject us to new or larger levels of regulatory, economic, foreign currency exchange, tax and political risks. Among the risks we believe are most likely to affect us with respect to our international sales and operations are:

•conomic conditions in various parts of the world;

unexpected changes in regulatory requirements;

less protection for intellectual property rights in some jurisdictions;

new and different sources of competition;

costs of compliance and penalties for noncompliance with foreign laws and laws applicable to companies doing business in foreign jurisdictions;

multiple, conflicting and changing tax laws and regulations that may affect both our international and domestic tax liabilities and result in increased complexity and costs;

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the difficulty of managing and staffing our international operations and the increased travel, infrastructure and legal compliance costs associated with multiple international locations;

difficulties in enforcing contracts and collecting accounts receivable, especially in developing countries;

fluctuations in exchange rates; and

tariffs and trade barriers, import and export controls and other regulatory or contractual limitations on our ability to sell or develop our solutions in certain foreign markets.

If we continue to expand our business globally, our success could depend, in large part, on our ability to anticipate and effectively manage these and other risks associated with our international operations. Our failure to manage any of these risks successfully could harm our international operations and reduce our international sales, adversely affecting our business, operating results and financial condition. To date, the majority of our sales have been denominated in U.S. dollars, although the majority of our expenses that we incur in our international operations are denominated in local currencies. To date, we have not used risk management techniques or "hedged" the risks associated with fluctuations in foreign currency exchange rates. As a result, our results of operations and financial condition, including our revenue and operating margins, are subject to losses from fluctuations in foreign currency exchange rates.

Our cloud and other new offerings bring new business and operational risks.

We have introduced new products and technology initiatives in the area of cloud computing. We include in this category our SaaS offerings. Our SaaS offerings provide our customers with existing and new software management through a hosted service as opposed to traditional software deployments. There can be no assurance that SaaS revenue may be significant in the future despite our investment. There is a risk that our SaaS offerings may reduce demand for licenses and maintenance of our traditional software products which could impact our financial performance in any given quarter. There is also a risk that our internal development and customer support teams could find it difficult or costly to support both traditional software installed by customers and software delivered as a service. In addition, interruptions or delays in service from our third-party service delivery hosts could impair the delivery of our services and harm our business. In the cloud, our products may be dependent upon third-party hardware, software and cloud hosting vendors, all of which must inter-operate for end users to achieve their computing goals. Additionally, operating margins on our new initiatives may be lower than those we have achieved in our more mature product markets, and our new initiatives may not generate sufficient revenue to recoup our investments in them. If any of these events were to occur, it could adversely affect our business, results of operations and financial condition. Our operations might be affected by the occurrence of a natural disaster or other catastrophic event.

Our headquarters are located in Houston, Texas, from which we base our operations. We also conduct business in other domestic and international locations. Although we have contingency plans in effect for natural disasters or other catastrophic events (including terrorist attacks and hurricanes), these events could disrupt our operations. Even though we carry business interruption insurance and typically have provisions in our contracts that protect us in certain events, we might suffer losses as a result of business interruptions that exceed the coverage available under our insurance policies or for which we do not have coverage. Even a temporary disruption to our business operations may create a negative perception in the marketplace. Any natural disaster or catastrophic event affecting us could have a significant negative impact on our operations.

The expiration of the research and experimentation tax credit could have a negative impact on our business, results of operations, financial condition or liquidity.

Our federal effective tax rate historically has been lower than the statutory rate of 34% largely due to tax credit incentives under the U.S. research and experimentation tax credit extended to taxpayers engaged in qualified research and experimental activities. This tax credit is designed to stimulate qualifying company research and development over time by reducing after-tax costs. By qualifying for the tax credit, we have been able to use general business tax credits to reduce our federal income tax liability. Since its enactment in 1981, Congress has reinstated on a retroactive basis the research and experimentation tax credit several times. Cancellation of this research and experimentation tax credit could record federal income taxes at the enacted federal rate of 34%, without the benefit of this tax credit.

We incur significant costs as a result of operating as a public company, and our management is required to devote substantial time to compliance initiatives.

As a public company, we incur significant legal, accounting and other expenses. The Sarbanes-Oxley Act of 2002 ("Sarbanes-Oxley") and the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act"), and rules currently proposed or subsequently implemented by the SEC and NYSE impose heightened requirements on public companies. Our management and other personnel devote a substantial amount of time to these compliance initiatives. We may also need to

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hire additional personnel to support our compliance requirements. Moreover, these rules and regulations increase our legal and financial costs and make some activities more time-consuming.

If we fail to continue to maintain internal controls over financial reporting in accordance with Section 404 of the Sarbanes-Oxley Act, our market price may be adversely affected.

Section 404 of the Sarbanes-Oxley Act requires our management to assess the effectiveness of our internal control over financial reporting and to provide a report by our registered independent public accounting firm addressing the effectiveness of our internal control over financial reporting. If we are unable to continue to assert that our internal controls over financial reporting are effective, or if a material weakness is identified in our internal controls over financial reporting, or if we are unable to implement internal controls over financial reporting for our acquisitions, our financial results may be adversely affected and we could lose investor conf