

PROOFPOINT INC
Form 10-K
February 21, 2019
UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the Fiscal Year Ended December 31, 2018

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 001-35506

PROOFPOINT, INC.

(Exact name of Registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)	51-0414846 (I.R.S. employer identification no.)
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892 Ross Drive

Sunnyvale, California (Address of principal executive offices)	94089 (Zip Code)
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(408) 517-4710

(Registrant's telephone number, including area code)

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

Title of Each Class

Name of each exchange on which registered

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Common Stock, \$0.0001 par value per share NASDAQ Global Select Market
Securities registered pursuant to Section 12(g) of the Act:

None

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

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. YES NO

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

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted 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 such files). YES 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, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	Accelerated filer
Non-accelerated filer	Smaller reporting company
	Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant, based upon the closing price of a share of the registrant's common stock on June 30, 2018 as reported by the NASDAQ Global Select Market on that date, was approximately \$5,798 million. This calculation does not reflect a determination that certain persons are affiliates of the registrant for any other purpose.

The number of shares outstanding of the registrant's common stock as of February 8, 2019 was 55,349,592 shares.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement for its 2018 Annual Meeting of Stockholders (the "Proxy Statement"), to be filed with the Securities and Exchange Commission, are incorporated by reference into Part III of this Annual Report on Form 10-K where indicated. The Proxy Statement will be filed with the Securities and Exchange Commission within 120 days of the registrant's fiscal year ended December 31, 2018.

PROOFPOINT, INC.

FORM 10-K

For the Fiscal Year Ended December 31, 2018

TABLE OF CONTENTS

	Page
<u>PART I.</u>	
Item 1. <u>Business</u>	4
Item 1A. <u>Risk Factors</u>	16
Item 1B. <u>Unresolved Staff Comments</u>	33
Item 2. <u>Properties</u>	33
Item 3. <u>Legal Proceedings</u>	34
Item 4. <u>Mine Safety Disclosures</u>	34
<u>PART II.</u>	
Item 5. <u>Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities</u>	35
Item 6. <u>Selected Financial Data</u>	36
Item 7. <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u>	39
Item 7A. <u>Quantitative and Qualitative Disclosures About Market Risk</u>	60
Item 8. <u>Financial Statements and Supplementary Data</u>	61
Item 9. <u>Changes in and Disagreements with Accountants on Accounting and Financial Disclosure</u>	61
Item 9A. <u>Controls and Procedures</u>	61
Item 9B. <u>Other Information</u>	61
<u>PART III.</u>	
Item 10. <u>Directors, Executive Officers and Corporate Governance</u>	62
Item 11. <u>Executive Compensation</u>	62
Item 12.	62

Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Item 13. Certain Relationships and Related Transactions, and Director Independence 62

Item 14. Principal Accountant Fees and Services 62

PART IV.

Item 15. Exhibits and Financial Statement Schedules 63

Signatures 106

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements contained in this Annual Report on Form 10-K other than statements of historical fact, including statements regarding our future results of operations and financial position, our business strategy and plans, and our objectives for future operations, are forward-looking statements. The words “believe,” “may,” “will,” “estimate,” “continue,” “anticipate,” “intend,” “expect,” and similar expressions are intended to identify forward-looking statements. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in Part I, Item 1A, “Risk Factors” in this Annual Report on Form 10-K. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the future events and trends discussed in this Annual Report on Form 10-K may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

Unless expressly indicated or the context requires otherwise, the terms “Proofpoint,” “Company,” “Registrant,” “we,” “us,” and “our” mean Proofpoint, Inc. and its subsidiaries unless the context indicates otherwise.

PART I

ITEM 1. BUSINESS

Overview

Proofpoint is a leading next-generation cybersecurity company that enables large and mid-sized organizations worldwide to protect the way their people work from advanced threats and compliance risks. Our integrated suite of products works together to help organizations build people-centric security and compliance programs. We provide threat protection, information protection, user protection, business ecosystem protection, and compliance solutions to address today's rapidly changing threat and compliance landscape. Our solutions are built on a flexible, cloud-based platform and leverage proprietary technologies - including big data analytics, machine learning, deep content inspection, secure storage, advanced encryption, intelligent message routing, dynamic malware analysis, threat correlation, and virtual execution environments.

Every company's greatest asset and greatest security risk is its people. Cyberattacks have fundamentally shifted from targeting infrastructure to targeting people, relying on tricking users into running code, divulging their passwords, or even sending money or data. This transformation of the threat landscape manifests in nearly every form of cyber threat, from nation state advanced persistent threat (APT) actors relying on phishing, through to cybercriminals launching massive ransomware email campaigns, and more targeted campaigns designed to steal valuable data from both legacy and cloud-based systems. At the same time, the rapid adoption of cloud applications has increased organizations' attack surface by moving both threats and sensitive data away from the traditional network perimeter, reducing the effectiveness of many existing security products. These factors have contributed to an increasing number of severe data breaches and expanding regulatory mandates, notably the European Union's General Data Protection Regulation (GDPR), all of which have accelerated demand for effective threat protection and compliance solutions.

Our platform addresses this growing challenge by not only protecting data as it flows into and out of the enterprise via on-premises and cloud-based email, social media, and other cloud applications, but also by keeping track of this information as it is modified and distributed throughout the enterprise for compliance and data loss prevention, and securely archiving these communications for compliance and discovery. We help organizations reduce their critical risk in five major ways:

- Protecting users from the advanced attacks that target them via email, web, networks, social media, and cloud apps;
- Preventing the theft or inadvertent loss of sensitive information and, in turn, ensuring compliance with regulatory data protection mandates;
- Improving the resilience of end-users to the threats that target them and training them to be better caretakers of their organizations' critical data;
- Collecting, retaining, supervising and discovering communications and sensitive data for compliance and litigation support; and
- Enabling organizations to respond quickly to security issues, providing both the intelligence and the context to prioritize incidents and orchestrate remediation actions.

Our platform and its associated solutions are sold to customers on a subscription basis and can be deployed through our unique cloud-based architecture that leverages both our global data centers as well as optional points-of-presence behind our customers' firewalls. Our flexible deployment model enables us to deliver superior security and compliance while maintaining the favorable economics afforded by cloud computing, creating a competitive advantage for us over legacy on-premises and cloud-only offerings.

We were founded in 2002 to provide a unified solution to help enterprises address their growing data security requirements. Our first solution was commercially released in 2003 to combat the burgeoning problem of spam and viruses and their impact on corporate email systems. To address the evolving threat landscape and the adoption of communication and collaboration systems beyond corporate email and networks, we have broadened our solutions to

defend against a wide range of threats, including email, mobile apps and social media, to protect the

4

information people create from both compromise and compliance risks, and to archive and govern corporate information. Today, our solutions are used worldwide to protect well over 100 million end-users at enterprise customers, and millions more via service providers through our Cloudmark division. We market and sell our solutions worldwide both directly through our sales teams and indirectly through a hybrid model where our sales organization actively assists our network of distributors and resellers. We also distribute our solutions through strategic partners.

Proofpoint Solutions

Our integrated suite of on-demand security-as-a-service solutions enables large and mid-sized organizations to protect people throughout the enterprise from advanced attacks and compliance risks. Our comprehensive platform provides a secure email gateway, advanced threat protection, security awareness training, threat intelligence, email authentication, email encryption, data loss prevention, digital risk protection, cloud application protection, web browser isolation, archiving, e-discovery, and threat response capabilities. These solutions are built on a cloud-based architecture, protecting enterprises and their customers from inbound threats via email, social media, and mobile apps, while identifying and protecting enterprise data not only where it is stored within the enterprise but also as it transits beyond the organization's borders such as via email or social media. We have pioneered the use of innovative technologies to deliver better ease-of-use, greater protection against the latest advanced threats, and lower total cost of ownership than traditional alternatives. The key elements of our solution include:

• **Superior protection against both advanced and targeted threats.** We use a combination of proprietary technologies for big data analytics, machine learning, deep content inspection, static and dynamic malware analysis, protocol analysis, threat correlation, threat intelligence extraction, and virtual execution environments to predictively and actively detect and stop targeted "spear phishing" and other sophisticated advanced threats, including malicious attachments, polymorphic threats, zero-day exploits, user-transparent "drive-by" downloads, malicious web links, hybrid threats (such as links inserted into attached files), malware free attacks like impostor threats and credential phishing, and other penetration tactics. By processing, analyzing and correlating billions of data points on a daily basis, we can recognize anomalies in order to predictively detect targeted attacks before users are exposed. Our deep content inspection technology enables us to identify malicious message attachments and distinguish between valid messages and "phishing" messages designed to look authentic and trick the end-user into divulging sensitive data or clicking on a malicious web link. Our machine learning technology enables us to detect targeted "zero-hour" attacks in real-time, even if they have not been seen previously at other locations, and quarantine them appropriately. Our dynamic malware analysis and virtual execution environment technologies enable us to examine web site destinations and downloadable files to identify and block potentially hostile code that would otherwise compromise end-user computers, even in cases where the web sites are considered reputable or the attachment's malicious payload is obfuscated or otherwise disguised. Our threat correlation technologies enable us to rapidly confirm and contain threats, providing rapid, automated protection. In addition, our threat intelligence and response capabilities enable our customers to both prioritize threats that may have compromised them and orchestrate or automate protective countermeasures.

• **Comprehensive, integrated email security, advanced threat, information protection and archiving, and digital risk protection product families.** We offer a comprehensive solution for email security that we believe is unparalleled in the market. Our Threat Protection product family includes solutions to protect organizations across the predominant threat vectors, including email, web, social media, and cloud applications. To protect enterprise data from security and compliance risks, our Information Protection product family includes a suite of security and compliance solutions. Finally, we enable organizations to look beyond their borders for threats targeting their customers across email phishing, malicious web domains, compromised cloud accounts, and fraudulent social media accounts.

• **Designed to empower end-users.** Unlike legacy offerings that simply block communication or report audit violations, our solutions actively enable secure business-to-business and business-to-consumer communications. Our easy-to-use policy-based email encryption service automatically encrypts sensitive emails and delivers them to any PC or mobile device. In addition, our secure file-transfer solution makes it easy for end-users to securely share various forms of documents and other content that are typically too large to send through traditional e-mail systems. All our solutions provide mobile-optimized capabilities to empower the growing number of people who use mobile

devices as their primary computing platform. We also provide solutions that train end-users to be the last line of defense against cyber-attacks.

5

Security optimized cloud architecture. Our multi-tenant security-as-a-service solution leverages a distributed, scalable architecture deployed in our global data centers for deep content inspection, global threat correlation and analytics, high-speed search, secure storage, encryption key management, software updates, intelligent message routing, and other core functions. Our architecture also enables us to look across hundreds of billions of data points gathered from across our product portfolio and intelligence feeds to better correlate and analyze both targeted and broad-based threat campaigns. Customers can choose to deploy optional physical or virtual points-of-presence behind their firewalls for those who prefer to deploy certain functionality inside their security perimeter. This architecture enables us to leverage the benefits of the cloud to cost-effectively deliver superior security and compliance, while optimizing each deployment for the customer's unique threat environment.

Extensible security-as-a-service platform. The key components of our security-as-a-service platform, including services for secure storage, content inspection, reputation, big data analytics, encryption, key management, and identity and policy, can be exposed through application programming interfaces, or APIs, to integrate with internally developed applications as well as with those developed by third-parties. In addition, these APIs provide a means to integrate with the other security and compliance components deployed in our customers' infrastructures, including Proofpoint's ecosystem partners.

Our Security-as-a-Service Platform

We provide a multi-tiered security-as-a-service platform consisting of solutions, platform technologies and infrastructure. Our platform currently includes product families and related bundles for the convenience of our customers, distributors and resellers. Each of these solutions is built as an aspect of our security-as-a-service platform, which includes both platform services and enabling technologies for both security and compliance. Our platform services provide the key functionality to enable our various solutions while our enabling technologies work in conjunction with our platform services to enable the efficient construction, scaling and maintenance of our customer-facing solutions.

Our suite is delivered by a cloud infrastructure and can be deployed as a secure cloud-only solution, or as a hybrid solution with optional physical or virtual points-of-presence behind our customers' firewalls for those who prefer to deploy certain functionality inside their security perimeter. In all deployment scenarios, our cloud-based architecture enables us to leverage the benefits of the cloud to cost-effectively deliver superior security and compliance while maintaining the flexibility to optimize deployments for customers' unique environments. The modularity of our solutions enables our existing customers to implement additional modules in a simple and efficient manner.

Product Families

Proofpoint Threat Protection

Proofpoint Threat Protection products leverage a broad set of detection techniques that are constantly refined as the threat landscape evolves. The products detect and prevent threats across email, web, networks, and cloud applications, and deliver rich intelligence to enable enterprises to understand as much as possible about the attacks they are seeing and the adversaries behind them.

Key capabilities within the Threat Protection products include:

- Email security and continuity. Provides protection from unwanted and malicious email, with granular visibility and business continuity for organizations of all sizes. It provides IT and security teams with confidence in securing end-users from email threats and maintain email communications during outages.

Email management essentials for small to medium organizations. Our suite of security-as-a-service and compliance solutions specifically designed for distribution across managed service providers and dedicated security resellers. Key capabilities include inbound email filtering to block spam and malware, outbound filtering for compliance with company policies, email continuity to enable email service availability, targeted attack protection, and email archiving.

6

Protection from targeted attacks. Enterprises are protected against both commodity and advanced threats such as phishing and other targeted email attacks using big data analysis, predictive, virtual execution, static analysis, protocol analysis, and dynamic malware analysis techniques to identify and apply additional security controls against suspicious messages, attachments and any associated links to the web. The same detection techniques are extended to look for malicious content in enterprise social media accounts, malicious links and files sent to users via cloud applications. It also detects suspicious login activity that could indicate signs of account compromise.

Detection of compromised cloud accounts and internal email threats. We take a multi-layered approach to protect an organization's internal email by scanning all internal email for spam, malicious attachments, and malicious URLs. We also provide automated protection of account compromise in Office 365. These threats typically start with phishing or other techniques, such as credential-stealing malware and brute-force credential stuffing. Compromised accounts are then used to launch lateral attacks, everything from business email compromise ("BEC") to internal phishing attacks, both inside and outside organizations.

Security orchestration to respond quickly to security alerts. Provides threat information and indicators of compromise ("IoCs") correlation, aggregating across Proofpoint and other third-party security products, to confirm and contain system compromises. By taking advantage of this automated incident response, enterprises can minimize exfiltration windows and leverage staff for breach prevention and mitigation. In addition, it can be leveraged to automatically remove malicious emails that have been delivered to users' email inboxes, reducing the potential risk exposure.

Web browser isolation. Allows end-users to access websites and personal webmail from corporate devices while preventing malware or malicious content from impacting the user or device.

Threat intelligence feed and ruleset. Verified threat intelligence from one of the world's largest malware exchanges. Unlike other intelligence sources that report only domains or IP addresses, ET Intelligence includes a five-year history, proof of conviction, more than 40 threat categories and related IPs, domains, and samples. This also comes in the form of a timely and accurate rule set for detecting and blocking threats using existing network security appliances—including next generation firewalls (NGFW) and network IDS/IPS.

Key benefits of Proofpoint Threat Protection include:

Superior protection from advanced threats, spam and viruses. Proofpoint's agility in deploying new detection measures and adjusting defenses in response to changes in the threat landscape results in high effectiveness in stopping threats before they reach enterprise users. Protects against advanced threats, spam and other malware such as remote access Trojans, banking Trojans, ransomware, viruses, and spyware.

Comprehensive outbound threat protection. Analyzes all outbound email traffic to block spam, viruses and other malicious content from leaving the corporate network and pinpoint the responsible compromised systems.

Protection from internal threats, including compromised email or cloud accounts. Security teams gain visibility into cloud accounts that sent malicious emails or exhibited suspicious activity, so they can quickly track down and act upon potentially compromised accounts.

Curated threat intelligence. Proofpoint's threat research team tracks campaigns and actors, providing detailed research in addition to curated IoCs. The high quality of this threat intelligence enables customers to better prioritize their responses to alerts generated by Proofpoint products, as well as leverage the intelligence to hunt for threats that may have compromised their enterprises via other channels.

Effective, flexible policy management and administration. Provides a user-friendly, web-based administration interface and robust reporting capabilities that make it easy to define, enforce and manage an enterprise's messaging policies.

Easy-to-use end-user controls. Gives email users easy, self-service control over their individual email preferences within the parameters of corporate-defined messaging policies.

- Superior protection from business email compromise. Combining a dynamic classifier on the email gateway with a proactive authentication solution and a lookalike domain discovery service delivers protection from these attacks.
- Business continuity. Provides an always-on insurance policy for crucial business communications via email.
- Automation of incident response to save time and optimize resources. Automate the threat data enrichment, forensic verification, and response processes after a security alert is received. Automatically confirm malware infections, check for evidence of past infections, and enrich security alerts by automatically adding internal and external context and intelligence.
- Secure, anonymous web browsing for employees. Mitigates security, productivity, and privacy challenges associated with untrusted, high-risk web use by employees.

Proofpoint Information Protection

A comprehensive data protection strategy must address both security and compliance risks. Our data loss prevention, encryption and compliance solutions defend against leaks of confidential information, and helps ensure compliance with common U.S., international and industry-specific data protection regulations - including the Health Care Insurance Portability and Accountability Act of 1996 (“HIPAA”), the Gramm-Leach-Bliley Act, Canada’s Personal Information Protection and Electronic Documents Act, as well as acts such as CA SB 24, MA 201 CMR 17.00, ITAR, NERC-CIP, CFTC red flag rules, Basel II, EuroSOX (Directive 84/253/EEC), the European Union GDPR, and the Payment Card Industry Data Security Standard (PCI-DSS).

Key capabilities within Proofpoint Information Protection products include:

- Advanced data loss prevention. Our advanced data loss prevention solution identifies regulated private content, valuable corporate assets and confidential information before it leaves the organization via email, cloud applications, or our Secure Share solution. Pre-packaged smart identifiers and dictionaries automatically and accurately detect a wide range of regulated content such as social security numbers, health records, credit card numbers, and driver’s license numbers. In addition to regulated content, our machine learning technology can identify confidential, organization-specific content and assets. Once identified and classified, sensitive data can be blocked, encrypted and transmitted or re-routed internally based on content and identity-aware policies.
- Policy-based encryption. Automatically encrypts regulated and other sensitive data before it leaves an organization’s security perimeter without requiring cumbersome end-user key management. This enables authorized external recipients, whether or not they are our customers, to quickly and easily decrypt and view content from most devices.
- Encrypted message portal. Organizations in regulated industries like financial services and healthcare frequently need to share highly confidential messages with outside parties. Proofpoint provides a “pull encryption” portal that enables these organizations to create branded portals that seamlessly integrate with their email systems to securely communicate with their customers, patients, or other third parties.
- Secure file sharing. Cloud-based security-focused solution designed to enable enterprise users to securely exchange large files with ease while staying compliant with enterprise data policies.
- Discovery of sensitive data in on-premises and cloud-based file stores. Automated discovery and remediation solution that identifies sensitive content across the enterprise and enables corrective action, while reducing risk of data breaches and compliance violations.

Key benefits of Proofpoint Information Protection include:

- Regulatory compliance. Data Loss Prevention and Encryption enable outbound messages to comply with national and state government and industry-specific privacy regulations, while Enterprise Archive helps organizations meet regulatory requirements by archiving all messages and content according to compliance retention policies and enabling staff to systematically review messages for compliance supervision. SaaS Protection extends the same compliance functionality to cloud applications like Office 365, Box, Salesforce, and G Suite.

Superior malicious and accidental data loss protection. Protects against the loss of sensitive data, whether from a cybercriminal attempting to exfiltrate valuable data from a compromised system, or from an employee accidentally distributing a file to the wrong party through email, webmail, social media, file sharing, or other Internet-based mechanisms for publishing content.

Easy-to-use secure communication. Allows corporate end-users to easily share sensitive data without compromising security and privacy, and enables authorized external recipients to transparently decrypt and read the communications from any device. Our mobile-optimized interfaces provide an easy experience for the rapidly growing number of recipients on smartphones and tablets.

Reduction in “attack surface”. Enables the automated protection of sensitive data, reducing the amount of critical information potentially exposed to an attacker in a breach scenario.

Proofpoint User Protection

Proofpoint User Protection combines simulation, assessments, education, reinforcement, and measurement to provide the ideal foundation for your security awareness and training program, utilizing hundreds of different phishing templates across dozens of languages and categories to simulate attacks and evaluate end-users on various threats, including malicious attachments, embedded links, and requests for personal data. Users who are deceived by simulated attacks receive “just-in-time teaching” and administrators receive real-time reporting to focus awareness efforts and track progress.

Key capabilities within Proofpoint User Protection products include:

Simulating phishing attacks. Create simulated attacks that include attachments, embedded links, and requests for personal data in different languages.

End-user reporting of phishing. End-users can report a suspicious message with a single click using the email reporting button. Automatically analyze reported messages against multiple intelligence and reputation systems. The system can be configured with other Proofpoint solutions to delete or quarantine real threats with a single click.

Security awareness training and assessments. Educate employees to improve awareness, change user behavior, and reduce security risk to the organization. Proofpoint provides a comprehensive and effective library of anti-phishing training.

Key benefits of Proofpoint User Protection include:

Understand organization’s security and compliance risk. Track training, phishing simulation, and threat reporting results to build your security awareness program accordingly.

Change end-user behavior to reduce risk to your organization. Application of our continuous training methodology produces highly effective results for changing user behavior.

Proofpoint Business Ecosystem Protection

Proofpoint Business Ecosystem Protection looks beyond the enterprise perimeter to deliver real-time, omnichannel digital risk discovery and protection from email fraud, brand fraud, data loss, physical threats, and cyber threats. With this solution, enterprises can engage with their customers across web, email, mobile, and social media with the confidence that their brands and customers are safe from all forms of digital risk.

Key capabilities within Proofpoint Business Ecosystem Protection products include:

Preventing email fraud. Enables organizations to understand who is sending email from their domains and create a policy to both authenticate legitimate email and block fraudulent email.

Detecting brand fraud. Fraudsters imitate companies’ brands across digital channels to target customers with phishing scams, malware, phishing, and counterfeit products. Using a native cloud-based platform, customers can quickly find fraudulent social media accounts, web domains, and mobile apps that are affiliated with their brands.

• **Detecting external threats.** External threat management tools enable organizations to quickly identify leaked intellectual property, credentials, and customer data on the web or dark web. Additionally, detection measures can identify cyber criminals using digital tools to plan and execute cyber-attacks that target company’s digital presence and/or physical attacks on its executives, employees, and physical locations.

• **Compliance monitoring and protection.** Leveraging social media APIs, the platform can monitor and apply content policies to the brand’s owned social media accounts for security, compliance and acceptable use. Using proprietary Deep Social Linguistic Analysis technology, social media and brand managers can aggregate content from across their enterprise and review it for security, risk and compliance violations (including Financial Industry Regulatory Authority “FINRA”, Federal Financial Institutions Examination Council, Food and Drug Administration, SEC, Financial Conduct Authority violations), allowing them to safely syndicate content distribution across their social media marketing platforms.

Key benefits of Proofpoint Business Ecosystem Protection include:

• **Reduction of fraud.** Enterprises can reduce both the direct and indirect costs relating to fraud by rapidly and proactively identifying fraudulent web domains, mobile apps, and social media accounts leveraged by cyber criminals in phishing and other forms of attacks.

• **Visibility into external threats.** Organizations benefit from early warnings of potentially harmful threats to physical sites, digital presences, and key executives, as well as well as unauthorized posting or resale of their private data.

• **Enhanced compliance.** Reduces potential liability from inadvertent posting of sensitive data and demonstrates compliance with more than 35 standards and industry regulations. Automates compliance review processes and social advocate programs through seamless integration with leading social media management suites.

Proofpoint Compliance Solutions

Proofpoint Compliance Solutions are designed to ensure accurate enforcement of data governance, data retention and supervision policies and mandates; cost-effective litigation support through efficient discovery; and active legal-hold management. It can store, govern and discover a wide range of data including email, instant message conversations, social media interactions, and other files throughout the enterprise. With this solution, enterprises can engage with their customers across web, email, mobile, and social media with the confidence that their brands and customers are safe from all forms of digital risk.

The key features of the Compliance Solutions product family include:

• **Secure cloud storage.** With our proprietary double-blind encryption technology and the associated data storage architecture, all email messages, files and other content are encrypted with keys controlled by the customer before the data enters the Proofpoint Enterprise Archive. This ensures that even our employees and law-enforcement agencies cannot access a readable form of the customer data without authorized access by the customer to the encryption keys stored behind the customer’s firewall.

• **Flexible remediation and supervision.** Content, identity and destination-aware policies enable effective remediation of potential data breaches or regulatory violations. Remediation options include stopping the transfer completely, automatically forcing data-encryption, or routing to a compliance supervisor or the end-user for disposition. The solution also provides comprehensive reporting on potential violations and remediation using our analytics capabilities.

• **Search performance.** By employing parallel, big data search techniques, we can deliver search performance measured in seconds, even when searching hundreds of terabytes of archived data. Traditional on-premise solutions can take hours or even days to return search results to a complex query.

✦ **Flexible policy enforcement.** Enables organizations to easily define and automatically enforce data retention and destruction policies necessary to comply with regulatory mandates or internal policies that can vary by user, group, geography or domain.

✦ **Active legal-hold management.** Enables administrators or legal professionals to easily designate specific individuals or content as subject to legal-hold. Proofpoint Enterprise Archive then provides active management of these holds by suspending normal deletion policies and automatically archiving subsequent messages and files related to the designated matter.

✦ **End-user supervision.** Leveraging our flexible workflow capabilities, Proofpoint Enterprise Archive analyzes all electronic communications, including email and communications from leading instant messaging and social networking sites, for potential violations of regulations, such as those imposed by FINRA and the SEC in the financial services industry.

Key benefits of Proofpoint Compliance Solutions include:

✦ **Proactive data governance.** Allows organizations to create, maintain and consistently enforce a clear corporate data retention policy, reducing the risk of data loss and the cost of e-discovery.

✦ **Efficient litigation support.** Provides advanced search features that reduce the cost of e-discovery and allow organizations to more effectively manage the litigation hold process.

✦ **Reduced storage and management costs.** Helps to simplify mailbox and file system management by automatically moving storage-intensive attachments and files into cost-effective cloud storage.

Platform Services

Our platform services provide the key functionality to implement our various solutions, using our enabling technologies. Our platform services primarily consist of:

✦ **Threat detection.** Proofpoint deploys an ensemble approach to detect both malware and malware-free attacks. The approach combines multiple forms of detection, including composite reputation correlation, sandboxing for malicious attachments, URLs, and credential phishing, code analysis, network detection, and classifiers for phishing and impostor/BEC attacks.

✦ **Threat intel extraction.** Proofpoint leverages a dedicated environment to learn as much as possible about threats that are detected by any part of the ensemble approach. The extraction environment leverages virtual sandboxes, physical hardware, and human analysts to induce malware to detonate and gather as much forensic detail about it as possible.

✦ **Nexus threat graph.** Proofpoint synthesizes threat intelligence gathered from the vectors and threat feeds in a graph database known as Proofpoint Nexus, which is leveraged by threat researchers to correlate threats into campaigns, analyze new threats for links to known actors, and lend context (e.g. what vertical industries are seeing a given campaign) to all detected threats.

✦ **Real-time detection.** Proofpoint leverages platform services to be in the flow of the movement of potentially sensitive data, including our email gateways, API-based social media integrations, mobile applications store scanning tools, and SaaS application API/proxy connectivity.

✦ **Information classification.** For regulated or otherwise sensitive data, Proofpoint leverages smart identifiers to accurately recognize data types that are relevant from either a security or compliance perspective.

✦ **Intelligent policy.** Proofpoint's information protection and archive products leverage an intelligent policy framework that spans retention, legal hold, smart identifiers, and compliance frameworks, regardless of where the data may be stored or by which channel it is being sent.

Enabling Technologies

Our enabling technologies are a proprietary set of building blocks that work in conjunction with our application services to enable the efficient construction, scaling and maintenance of our customer-facing solutions. These technologies primarily consist of:

- **Big data analytics.** Indexes and analyzes petabytes of information in real-time to discover threats, detect data leaks and enable end-users to quickly and efficiently access information distributed across their organizations.
- **Machine learning.** Builds predictive data models using our proprietary Proofpoint MLX machine learning techniques to rapidly identify and classify threats and sensitive content in real-time.
- **Identity and policy.** Enables the definition and enforcement of sophisticated data protection policies based on a wide set of variables, including type of content, sender, recipient, pending legal matters, time and date, regulatory status and more.
- **Secure storage.** Stores petabytes of data in the cloud cost-effectively using proprietary encryption methods, keeping sensitive data tamper-proof and private, yet fully searchable in real-time.
- **Virtual execution environments.** Exposes suspected malware to a permuted set of instrumented virtual system environments, to assess maliciousness, exploit activity and compromise processes.
- **Intelligent message routing.** Policies can be established by administrators to automatically direct email communications differently through the email network, based on aspects of the messages, for security, compliance, supervisory, system performance, or other reasons.
- **Threat intelligence correlation.** Utilizes inputs from Proofpoint, cloud, and other third-party products to assess IoCs and confirm successful system compromises by malicious actors in near-real-time, then administers network controls to effectively contain the compromised systems.

Infrastructure

We deliver our security-as-a-service solutions through our cloud architecture and international data center infrastructure. We operate thousands of physical and virtual servers across seventeen data centers located in the United States, Canada, the Netherlands, France, Germany, and Australia.

Our cloud architecture is optimized to meet the unique demands of delivering real-time security-as-a-service to global enterprises. Key design elements include:

- **Security.** Security is central to our cloud architecture and is designed into all levels of the system, including physical security, network security, application security, and security at our third-party data centers. Our security measures have met the rigorous standards of SSAE 16 certification. In addition to this commercial certification program, we have also successfully completed the FISMA certification for our cloud-based information protection and archiving solution, enabling us to serve the rigorous security requirements of U.S. federal agencies.
- **Scalability and performance.** By leveraging a distributed, scalable architecture we process billions of requests against our reputation systems and hundreds of millions of messages per day, all in near real-time. Massively-parallel query processing technology is designed to ensure rapid search results over this vast data volume. In addition to this aggregate scalability across all customers, our architecture also scales to effectively meet the needs of several of our largest individual customers, each of which has millions of users and processes tens of millions of messages per day.
- **Hybrid Deployment.** Our cloud architecture enables individual customers to deploy entirely in Proofpoint's global data centers or in hybrid configurations with optional points of presence located behind the customer's firewall. This deployment flexibility enables us to deliver security, compliance and performance tailored to the unique threat profile and operating environment of each customer.

• **High availability.** Our services employ a wide range of technologies including redundancy, geographic distribution, real-time data replication and end-to-end service monitoring to provide 24x7 system availability.

• **Network operations control.** We employ a team of skilled professionals who monitor, manage and maintain our global data center infrastructure and its interoperability with the distributed points of presence located behind our customers' firewalls to ensure 24x7 operations.

Customers

As of December 31, 2018, we had customers of all sizes across a wide variety of industries. A number of our largest customers use our platform to protect more than a million users and handle over a billion messages per day. During the years ended December 31, 2018 and 2017, one partner accounted for 12% of total revenue, although the partner sold to a number of end-users, none of which accounted for more than 10% of our total revenue in 2018 and 2017. During the year ended December 31, 2016, no individual customer accounted for more than 10% of total revenue. In each year since the launch of our first solution in 2003, we have maintained a renewal rate with our existing customers of over 90%.

We target large and mid-sized organizations across all major verticals including aerospace and defense, education, financial services, government, healthcare, manufacturing and retail. We have been particularly successful selling to the largest enterprises in the United States as ranked by Fortune Magazine. We have also had success penetrating the market leaders in a number of significant verticals including:

- 3 of the 5 largest U.S. retailers
- 4 of the 5 largest U.S. aerospace and defense contractors
- 5 of the 5 largest U.S. banks
- 4 of the 5 largest global pharmaceutical companies
- 4 of the 5 largest U.S. petroleum refining companies

Sales and Marketing

Sales

We primarily target large and mid-sized organizations across all industries. Our sales and marketing programs are organized by geographic regions, including Asia-Pacific, EMEA, Japan, North America, and South America, and we further segment and organize our sales force into teams that focus on large enterprises (4,000 employees and above), mid-sized organizations (1,000 - 4,000 employees) and existing customers. In addition, we create integrated sales and marketing programs targeting specific vertical-markets. This vertical-market approach enables us to provide a higher level of service and understanding of our customers' unique needs, including the industry-specific business and regulatory requirements in industries such as healthcare, financial services, retail and education.

We sell through both direct and indirect channels, including technology and channel partners:

• **Direct sales and reseller channel.** We market and sell our solutions to large and mid-sized customers directly through our field and inside sales teams as well as indirectly through a hybrid model, where our sales organization actively assists our network of distributors and resellers. Our sales personnel are primarily located in North America, with additional personnel located in Asia-Pacific, EMEA, Japan and South America. Our reseller partners maintain relationships with their customers throughout the territories in which they operate, providing them with services and third-party solutions to help meet their evolving security requirements. As such, these partners act as a direct conduit through which we can connect with these prospective customers to offer our solutions. Our channel partners include security centric resellers such as CDW, Optiv, and AT&T, as well as distributors such as Ingram Micro and Exclusive Networks.

• **Strategic relationships.** We also sell our solutions indirectly through key technology companies that offer our solutions in conjunction with one or more of their own products or services. These companies each have their own base of customers, and they distribute our products to augment their own branded products and solutions, sometimes

under their own brand and sometimes under the Proofpoint brand. In addition, our Cloudmark division delivers email protection to many of the largest global internet service providers.

13

For sales involving a partner such as a distributor, reseller or strategic partner, the partner engages with the prospective customer directly and involves our sales team as needed to assist in developing and closing an order. At the conclusion of a successful sales cycle, we sell the associated subscription, hardware and services to the partner who in turn resells these items to the customer, with the partner earning a margin based on the amount paid to Proofpoint as compared to the amount charged to the customer. With the order completed, we provide these customers with direct access to our security-as-a-service platform and other associated services, enabling us to establish a direct relationship and provide them with support as part of ensuring that the customer has a good experience with our platform. At the end of the contract term, the partner engages with the customer to execute a renewal order, with our team providing assistance as required.

Marketing

We have a number of marketing initiatives to build awareness about our solutions and encourage customer adoption of our solutions. Our marketing programs include a variety of digital marketing, advertising, conferences, events, white-papers, public relations activities and web-based seminar campaigns targeted at key decision makers within our prospective customers.

We offer free trials, competitive evaluations, and free security and compliance risk assessments to allow prospective customers to experience the quality of our solutions, to learn in detail about the features and functionality of our suite, and to quantify the potential benefits of our solutions.

Customer Service and Support

We believe that our customer service and support provide a competitive advantage and are critical to retaining and expanding our customer base. We conduct regular third-party surveys to measure customer loyalty and satisfaction with our solutions.

Proofpoint Support Services

We deliver 24x7x365 customer support from support centers located in EMEA, North America and Asia-Pacific regions. We offer a wide range of support offerings with varying levels of access to our support resources.

Proofpoint Professional Services and Training

With our security-as-a-service model, our solutions are designed to be implemented, configured, and operated without the need for any training or professional services. For those customers that would like to develop deeper expertise in the use of our solutions or would like some assistance with complex configurations or the importing of data, we offer various training and professional services. Many implementation services can be completed in one day and are primarily provided remotely using web-based conferencing tools. If requested, our professional services organization also provides additional assistance with data importing, design, implementation, customization, or advanced reporting. We also offer a learning center for both in-person and online training and certification.

Research and Development

We devote significant resources to improve and enhance our existing security solutions and maintain the effectiveness of our platform, monitoring the threat landscape in real-time and making constant adjustments to remain effective as the threat landscape shifts. We also work closely with our customers to gain valuable insights into their threat environments and security management practices to assist us in designing new solutions and features that extend the data protection, archiving and governance capabilities of our platform. Our technical staff monitors and tests our software on a regular basis, and we maintain a regular release process to update and enhance our existing solutions. Leveraging our on-demand platform model, we can deploy real-time upgrades with no downtime.

Competition

Our markets are highly competitive, fragmented and subject to rapid changes in technology. We compete primarily with companies that offer a broad array of data protection and governance solutions. Providers of data protection solutions generally have product offerings that include threat protection, virus protection, data loss prevention, flexible remediation, data encryption, and in some cases secure file transfer. Providers of archiving solutions generally have product offerings that provide data storage, search, policy enforcement, legal-hold management, and in some cases supervision.

Key competitors include:

Email and Advanced Threat Protection: Cisco Systems, Inc. (through its acquisitions of IronPort, SourceFire, and ThreatGRID), Microsoft Corporation (through its acquisition of Frontbridge), FireEye, Inc., Symantec Corporation (through its acquisitions of Brightmail and MessageLabs), Mimecast Ltd, Barracuda Networks, Inc. and Google, Inc. (through its acquisition of Postini).

Archiving: Micro Focus International plc and Veritas Technologies LLC (through its acquisitions of KVS and LiveOffice while under the ownership of Symantec Corporation).

We believe we compete favorably based on the following factors:

- effectiveness of our protection against advanced threats;
- comprehensiveness and integration of the solution;
- flexibility of delivery models;
- total cost of ownership;
- scalability and performance;
- customer support; and
- extensibility of platform.

Certain of our competitors have greater sales, marketing and financial resources, more extensive geographic presence and greater name recognition than we do. We may face future competition in our markets from other large, established companies, as well as from emerging companies. In addition, we expect that there is likely to be continued consolidation in our industry that could lead to increased price competition and other forms of competition.

Intellectual Property

We rely on a combination of trade secrets, patents, copyrights and trademarks, as well as contractual protections, to establish and protect our intellectual property rights and protect our proprietary technology. As of December 31, 2018, we had 120 patents and 54 patent applications. We have a number of registered and unregistered trademarks. We require our employees, consultants and other third parties to enter into confidentiality and proprietary rights agreements and control access to software, documentation and other proprietary information. Although we rely on intellectual property rights, including trade secrets, patents, copyrights and trademarks, as well as contractual protections to establish and protect our proprietary rights, we believe that factors such as the technological and creative skills of our personnel, creation of new modules, features and functionality, and frequent enhancements to our solutions are more essential to establishing and maintaining our technology leadership position.

Despite our efforts to protect our proprietary technology and our intellectual property rights, unauthorized parties may attempt to copy or obtain and use our technology to develop products with the same functionality as our solution. Policing unauthorized use of our technology and intellectual property rights is difficult.

We expect that software and other solutions in our industry may be subject to third-party infringement claims as the number of competitors grows and the functionality of products in different industry segments overlaps. Any of these third parties might make a claim of infringement against us at any time.

Employees

As of December 31, 2018, we had 2,613 employees. We also engage a number of temporary employees and consultants. None of our employees is represented by a labor union with respect to his or her employment with us. We have not experienced any work stoppages and we consider our relations with our employees to be good. Our future success will depend upon our ability to attract and retain qualified personnel. Competition for qualified personnel remains intense and we may not be successful in retaining our key employees or attracting skilled personnel.

Corporate Information

We were incorporated in Delaware in 2002. Our principal executive offices are located at 892 Ross Drive, Sunnyvale, California 94089, and our telephone number is +1 (408) 517-4710. Our website is www.proofpoint.com.

Proofpoint, the Proofpoint logo, all of our product names and our other registered or common law trademarks, service marks, or trade names appearing in this Annual Report on Form 10-K are our property. Other trademarks appearing in this prospectus are the property of their respective holders.

Geographic Information

For financial reporting purposes, net revenue and long-lived assets attributable to significant geographic areas are presented in Note 12, "Segment Reporting", to the consolidated financial statements, which is incorporated herein by reference.

Available Information

We file annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy and information statements and amendments to reports filed or furnished pursuant to Sections 13(a), 14 and 15(d) of the Securities Exchange Act of 1934, as amended. The SEC also maintains a website at <http://www.sec.gov> that contains reports, proxy and information statements and other information regarding Proofpoint and other companies that file materials with the SEC electronically. The public may also obtain these filings at the Securities and Exchange Commission ("SEC")'s Public Reference Room at 100 F Street, NE, Washington, DC 20549 or by calling the SEC at 1-800-SEC-0330. Copies of Proofpoint's reports on Form 10-K, definitive Proxy Statements, Forms 10-Q and Forms 8-K, may be obtained, free of charge, electronically through our Internet website, <http://investors.proofpoint.com/financials.cfm>, or by sending an electronic message by visiting the Contact Us section within the investor relations portion of our website.

ITEM 1A. RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the following risk factors, as well as the other information in this Annual Report on Form 10-K, before deciding whether to invest in shares of our common stock. The occurrence of any of the events described below could harm our business, financial condition, results of operation and growth prospects. In such an event, the trading price of our common stock may decline and you may lose all or part of your investment.

Risks Related to Our Business and Industry

We have a history of losses, and we are unable to predict the extent of any future losses or when, if ever, we will achieve profitability in the future.

We have incurred net losses in every year since our inception, including net losses of \$103.7 million, \$69.8 million and \$96.5 million in 2018, 2017 and 2016, respectively. As a result, we had an accumulated deficit of \$595.4 million as of December 31, 2018. Achieving profitability will require us to increase revenue, manage our cost structure, and avoid unanticipated liabilities. We do not expect to be profitable in the near term. Revenue growth may slow or revenue may decline for a number of possible reasons, including slowing demand for our solutions, increasing competition, a decrease in the growth of our overall market, or if we fail for any reason to continue to capitalize on growth opportunities. Any failure by us to obtain and sustain profitability, or to continue our revenue growth, could cause the price of our common stock to decline significantly.

Our quarterly operating results and other metrics are likely to vary significantly and be unpredictable, which could cause the trading price of our stock to decline.

Our operating results and other metrics have historically varied from period to period, and we expect that they will continue to do so as a result of a number of factors, many of which are outside of our control and may be difficult to predict, including:

- the level of demand for our solutions, including our newly-introduced solutions, and the level of perceived urgency regarding security threats and compliance requirements;
- the timing of new subscriptions and renewals of existing subscriptions;
- the mix of solutions sold;
- the extent to which customers subscribe for additional solutions or increase the number of users;
- customer budgeting cycles and seasonal buying patterns;
- the extent to which we bring on new distributors;
- any changes in the competitive landscape of our industry, including consolidation among our competitors, customers, partners or resellers;
- timing of costs and expenses during a quarter;
- deferral of orders in anticipation of new solutions or enhancements announced by us;
- price competition;
- changes in renewal rates and terms in any quarter;
- the impact of acquisitions;
- litigation costs;
- any disruption in our sales channels or termination of our relationship with strategic channel partners;
- general economic conditions, both domestically and in our foreign markets, and related changes to currency exchange rates;
- insolvency or credit difficulties confronting our customers, affecting their ability to purchase or pay for our solutions;
- or
- future accounting pronouncements or changes in our accounting policies.

Any one of the factors above or the cumulative effect of some of the factors referred to above may result in significant fluctuations in our financial and other operating results, including fluctuations in our key metrics. This variability and unpredictability could result in our failing to meet the expectations of securities analysts or investors for any period. If we fail to meet or exceed such expectations for these or any other reasons, the market price of our shares could fall substantially and we could face costly lawsuits, including securities class action suits. In addition, a significant percentage of our operating expenses are fixed in nature and based on forecasted revenue and cash flow trends. Accordingly, in the event of revenue shortfalls, we are generally unable to mitigate the negative impact on margins or other operating results in the short term.

We may fail to meet or exceed the expectations of securities analysts and investors, and the market price for our common stock could decline. If one or more of the securities analysts who cover us change their recommendation regarding our stock adversely, the market price for our common stock could decline. Additionally, our stock price may be based on expectations, estimates or forecasts of our future performance that may be unrealistic or may not be achieved. Further, our stock price may be affected by financial media, including press reports and blogs.

If we are unable to maintain high subscription renewal rates, our future revenue and operating results will be harmed.

Our customers have no obligation to renew their subscriptions for our solutions after the expiration of their initial subscription period, which typically ranges from one to three years. In addition, our customers may renew for fewer subscription services or users, renew for shorter contract lengths or renew at lower prices due to competitive or other pressures. We cannot accurately predict renewal rates and our renewal rates may decline or fluctuate as a result of a number of factors, including competition, customers' IT budgeting and spending priorities, and deteriorating general economic conditions. If our customers do not renew their subscriptions for our solutions, our revenue would decline and our business would suffer.

If we are unable to sell additional solutions to our customers, our future revenue and operating results will be harmed.

Our future success depends on our ability to sell additional solutions to our customers. This may require increasingly sophisticated and costly sales efforts and may not result in additional sales. In addition, the rate at which our customers purchase additional solutions depends on a number of factors, including the perceived need for additional solutions, growth in the number of end-users, and general economic conditions. If our efforts to sell additional solutions to our customers are not successful, our business may suffer.

If our solutions fail to protect our customers from security breaches, our brand and reputation could be harmed, which could have a material adverse effect on our business and results of operations.

The threats facing our customers are constantly evolving and the techniques used by attackers to access or sabotage data change frequently. As a result, we must constantly update our solutions to respond to these threats. If we fail to update our solutions in a timely or effective manner to respond to these threats, our customers could experience security breaches. Many federal, state and foreign governments have enacted laws requiring companies to notify individuals of data security breaches involving their personal data. These mandatory disclosures regarding a security breach often lead to widespread negative publicity, and any association of us with such publicity may cause our customers to lose confidence in the effectiveness of our data security measures. Any security breach at one of our customers or even an unproven allegation of a security breach at one of our customers, could harm our reputation as a secure and trusted company and could cause the loss of customers. Similarly, if a well-publicized breach of data security at a customer of any other cloud based data protection or archiving service provider or other major enterprise cloud services provider were to occur, there could be a loss of confidence in the cloud based protection and storage of sensitive data and information generally.

In addition, our solutions work in conjunction with a variety of other elements in customers' IT and security infrastructure, and we may receive blame and negative publicity for a security breach that may have been the result of the failure of one of the other elements not provided by us. The occurrence of a breach, whether or not caused by our solutions, or allegations of a breach, even if such allegations turn out to be untrue, could delay or reduce market acceptance of our solutions and have an adverse effect on our business and financial performance. In addition, any revisions to our solutions that we believe may be necessary or appropriate in connection with any such breach may cause us to incur significant expenses. Any of these events could have material adverse effects on our brand and reputation, which could harm our business, financial condition, and operating results.

If our customers experience data losses and breaches via our products or solutions, our brand, reputation and business could be harmed.

Our customers rely on our archiving and other solutions to protect, transfer or store their corporate data, which may include financial records, credit card information, business information, health information, other personally identifiable information or other sensitive personal information. A breach of our network security and systems or other events that cause the loss or public disclosure of, or access by third parties to, our customers' stored files or data could have serious negative consequences for our business, including possible fines, penalties and damages, reduced demand for our solutions, an unwillingness of our customers to use our solutions, harm to our brand and reputation, and time-consuming and expensive litigation. The techniques used to obtain unauthorized access, disable or degrade service, or sabotage systems change frequently, often are not recognized until launched against a target, and may originate from less regulated or remote areas around the world. As a result, we may be unable to proactively prevent these techniques, implement adequate preventative or reactionary measures, or enforce the laws and regulations that govern such activities. In addition, because of the large amount of data that we collect and manage, it is possible that hardware failures, insider errors or malfeasance or errors in our systems could result in data loss or corruption, or cause the information that we collect to be incomplete or contain inaccuracies that our customers regard as significant. If our customers experience any data loss, or any data corruption or inaccuracies, whether caused by security breaches or otherwise, our brand, reputation and business would be harmed.

Our insurance may be inadequate or may not be available in the future on acceptable terms, or at all. In addition, our policy may not cover any claim against us for loss of data or other indirect or consequential damages. Defending a suit based on any data loss or system disruption, regardless of its merit, could be costly and divert management's attention.

Defects or vulnerabilities in our solutions could harm our reputation, reduce the sales of our solutions and expose us to liability for losses.

Because our solutions are complex, undetected errors, failures or bugs may occur, especially when solutions are first introduced or when new versions or updates are released, or when we introduce an acquired company's products or services, despite our efforts to test those solutions and enhancements prior to release. This includes not only vulnerabilities that are specific to our solutions, but also vulnerabilities that impact the third-party or open source software that we use or the hardware that we rely on for our solutions. We may not be able to correct defects, errors, vulnerabilities or failures promptly, or at all.

Any defects, errors, vulnerabilities or failures in our solutions could result in:

- expenditure of significant financial and development resources in efforts to analyze, correct, eliminate or work around errors or defects or to address and eliminate vulnerabilities;
- loss of existing or potential partners or customers or loss of customer confidence;
- loss or disclosure of our customers' confidential information, or the inability to access such information;
- loss of our proprietary technology;
- our solutions being susceptible to hacking or electronic break-ins or otherwise failing to secure data;
- delayed or lost revenue;
- delay or failure to attain market acceptance;
- lost market share;
- negative publicity, which could harm our reputation; or
- litigation, regulatory inquiries or investigations that would be costly and harm our reputation.

Limitation of liability provisions in our standard terms and conditions and our other agreements may not adequately or effectively protect us from any claims related to defects, errors, vulnerabilities or failures in our solutions, including as a result of federal, state or local laws or ordinances or unfavorable judicial decisions in the United States or other countries.

Our software, website, hosted and internal systems may be subject to intentional disruption or penetration from external attackers or insiders that could adversely impact our reputation and future sales.

We could be a target of attacks specifically designed to impede the performance of our solutions, redirect users to malicious sites, harm our reputation or misappropriate our or our customers' proprietary information. Similarly, experienced computer hackers may attempt to penetrate our network or other security or the security of our website or other hosted or internal systems or to trick our employees into taking actions that compromise our security (such as via phishing or business email compromise attacks) in order to misappropriate proprietary information and/or cause interruptions of our services and/or expose perceived security vulnerabilities. It is also possible that systems may be disrupted or our sensitive information or the information of our customers might be exposed due to malfeasance or errors by employees or contractors. Because the techniques used by attackers to access or sabotage networks and compromise our systems and information change frequently and may not be recognized until launched against a target, we may be unable to anticipate these techniques. If an actual or perceived breach of network security occurs as a result of third-party action, including cyber-attacks or other intentional misconduct by computer hackers, error or malfeasance by insiders, or otherwise, it could adversely affect the market perception of our company and our solutions, and may expose us to the loss of information, litigation and possible liability. In addition, such a security breach could impair our ability to operate our business, including our ability to provide support services to our customers.

Our solutions may collect, filter and store customer data which may contain personal information, which raises privacy concerns and could result in us having liability or inhibit sales of our solutions.

Many federal, state and foreign government bodies and agencies have adopted or are considering adopting laws and regulations regarding the collection, use, and disclosure of personal information. Because many of the features of our solutions use, store, and report on customer data which may contain personal information from our customers, any inability to adequately address privacy concerns, or comply with applicable privacy laws, regulations and policies could, even if unfounded, result in liability to us, damage to our reputation, loss of sales, and harm to our business. Furthermore, the costs of compliance with, and other burdens imposed by, such laws, regulations and policies that are applicable to the businesses of our customers may limit the use and adoption of our solutions and reduce overall demand for them. Privacy concerns, whether or not valid, may inhibit market adoption of our solutions. For example, in the United States regulations such as the Gramm Leach Bliley Act, which protects and restricts the use of consumer credit and financial information, and HIPAA which regulates the use and disclosure of personal health information, impose significant security and data protection requirements and obligations on businesses that may affect the use and adoption of our solutions. Similarly, we hold a FedRAMP certification without which we would not be able to provide services and products to certain US federal entities.

In the past we have relied on U.S.-European Union Frameworks for transatlantic data flows such as the EU-US Privacy Shield, for which we self-certified under the EU-US Privacy Shield framework on October 5, 2016. However, Privacy Shield is currently being challenged in European Union ("EU") courts, so there is some uncertainty regarding its future validity and our ability to rely on it for EU to US data transfers. We also rely on Standard Contractual Clauses ("SCCs") authorized by the EU's Data Protection Directive of 1995 for transatlantic data flows, but the SCCs are also being challenged in EU courts, so there is some uncertainty regarding our ability to rely on SCCs in the future for EU to US data transfer. Additionally, the EU's General Data Protection Regulation, began to be enforced on May 25, 2018, and carries with it significantly increased responsibilities and potential penalties for companies that process EU personal data. We have seen increased customer attention surrounding EU Data Privacy. Furthermore, outside of the EU, we continue to see increased regulation of data privacy and security, including the adoption of more stringent

subject matter specific state laws (such as the new California Consumer Privacy Act of 2018 that will be effective January 1, 2020), national laws regulating the collection and use of data, and security and data breach obligations. The uncertainty and changes in the requirements of multiple jurisdictions may increase the cost of compliance, delay or reduce demand for our services, restrict our ability to offer services in certain locations, impact our customers' ability to deploy our solutions in certain jurisdictions, or subject us to

sanctions, by national data protection regulators, all of which could harm our business, financial condition and results of operations.

The regulatory framework for privacy issues is evolving worldwide, and various government and consumer agencies and public advocacy groups have called for new regulation and changes in industry practices. It is possible that new laws and regulations will be adopted in the United States and internationally, or existing laws and regulations may be interpreted in new ways, that would affect our business. Complying with any new regulatory requirements could force us to incur substantial costs or require us to change our business practices in a manner that could reduce our revenue or compromise our ability to effectively pursue our growth strategy.

Any failure or perceived failure to comply with laws and regulations or loss of certifications such as the FedRAMP certification may result in proceedings or actions against us by government entities or others, or could cause us to lose users and customers, which could potentially have an adverse effect on our business.

We operate in a highly competitive environment with large, established competitors, and our competitors may gain market share in the markets for our solutions that could adversely affect our business and cause our revenue to decline.

Our traditional competitors include security focused software vendors, such as Symantec Corporation and Cisco Systems, Inc. (“Cisco”), which offer software products that directly compete with our solutions. In addition to competing with these vendors directly for sales to customers, we compete with them for the opportunity to have our solutions bundled with the product offerings of our strategic partners. Our competitors could gain market share from us if any of these partners replace our solutions with the products of our competitors or if these partners more actively promote our competitors’ products over our solutions. In addition, software vendors who have bundled our solutions with theirs may choose to bundle their software with their own or other vendors’ software, or may limit our access to standard product interfaces and inhibit our ability to develop solutions for their platform.

We also face competition from large technology companies, such as Google Inc., Micro Focus International plc and Microsoft Corporation. These companies are increasingly developing and incorporating into their products features that compete on various levels with our solutions. Our competitive position could be adversely affected to the extent that our customers perceive that the functionality incorporated into these products would replace the need for our solutions or that buying from one vendor would provide them with increased leverage and purchasing power and a better customer experience. We also face competition from independent security vendors such as FireEye, Inc. that offer network security products and many smaller companies like Barracuda Networks, Inc. and Mimecast Ltd that specialize in particular segments of the markets in which we compete.

Many of our competitors have greater financial, technical, sales, marketing or other resources than we do and consequently may have the ability to influence our customers to purchase their products instead of ours. Further consolidation within our industry or other changes in the competitive environment could also result in larger competitors that compete with us on several levels. In addition, acquisitions of smaller companies by large technology companies that specialize in particular segments of the markets in which we compete would result in increased competition from these large technology companies. If we are unsuccessful in responding to our competitors or to changing technological and customer demands, our competitive position and financial results could be adversely affected.

If we do not effectively expand and train our sales force, we may be unable to add new customers or increase sales to our existing customers and our business will be harmed.

We continue to be substantially dependent on our sales force to obtain new customers and to sell additional solutions to our existing customers. We believe that there is significant competition for sales personnel with the skills and technical knowledge that we require. Our ability to achieve significant revenue growth will depend, in large part, on our success in recruiting, training and retaining sufficient numbers of sales personnel. New hires require significant

training and may take significant time before they achieve full productivity. Our recent hires and planned hires may not become as productive as we expect, and we may be unable to hire or retain sufficient numbers of qualified individuals in the markets where we do business or plan to do business. If we are unable to hire and train sufficient numbers of effective sales personnel, or the sales personnel are not successful in obtaining new customers or increasing sales to our existing customer base, our business will be harmed.

21

Our sales cycle is long and unpredictable, and our sales efforts require considerable time and expense. As a result, our results are difficult to predict and may vary substantially from quarter to quarter, which may cause our operating results to fluctuate.

We sell our security and compliance offerings primarily to enterprise IT departments that are managing a growing set of user and compliance demands, which has increased the complexity of customer requirements to be met and confirmed in the sales cycle. Increasingly, we have found that increasingly security, legal and compliance departments are involved in testing, evaluating and finally approving purchases, which has also made the sales cycle longer and less predictable. We may not be able to accurately predict or forecast the timing of sales, which makes our future revenue difficult to predict and could cause our results to vary significantly. In addition, we might devote substantial time and effort to a particular unsuccessful sales effort, and as a result we could lose other sales opportunities or incur expenses that are not offset by an increase in revenue, which could harm our business.

Because our long-term success depends, in part, on our ability to expand the sales of our platform to our customers located outside of the United States, our business will be increasingly susceptible to risks associated with international operations.

One key element of our growth strategy is to develop a worldwide customer base and expand our operations worldwide, such as by adding employees, offices and customers internationally, particularly in Europe and Asia.

Operating in international markets requires significant resources and management attention and will subject us to regulatory, economic, political and competitive risks and competition that are different from those in the United States.

In addition, our international operations may fail to succeed due to other risks inherent in operating businesses internationally, including:

- fluctuations in currency exchange rates, which may cause our revenues and operating results to differ materially from expectations;
- our lack of familiarity with commercial and social norms and customs in other countries which may adversely affect our ability to recruit, retain and manage employees in these countries;
- difficulties and costs associated with staffing and managing foreign operations;
- the potential diversion of management's attention to oversee and direct operations that are geographically distant from our U.S. headquarters;
- compliance with multiple, conflicting and changing governmental laws and regulations, including employment, tax, privacy and data protection laws and regulations;
- legal systems in which our ability to enforce and protect our rights may be different or less effective than in the United States, including more limited protection for intellectual property rights in some countries;
- immaturity of compliance regulations in other jurisdictions, which may lower demand for our solutions;
- greater difficulty with payment collections and longer payment cycles;
- higher employee costs and difficulty terminating non-performing employees;
- differences in workplace cultures;
- the need to adapt our solutions for specific countries;
- our ability to comply with differing technical and certification requirements outside the United States;
- tariffs, export controls and other non-tariff barriers such as quotas and local content rules;

- uncertainties related to the United Kingdom's withdrawal from the European Union ("Brexit") and its impact on our customers, data protection regulations and our employees and their ability to emigrate and travel to and from the United Kingdom;
- adverse tax consequences;
- restrictions on the transfer of funds;
- anti-bribery compliance by us or our partners, including under the Foreign Corrupt Practices Act and similar laws of other jurisdictions; and
- new and different sources of competition.

In addition, the current U.S. administration has recently instituted or proposed changes to foreign trade policy including the negotiation or termination of trade agreements, the imposition of tariffs on products imported from certain countries, economic sanctions on individuals, corporations or countries and other government regulations affecting trade between the United States and other countries in which we do business. New or increased tariffs and other changes in U.S. trade policy could trigger retaliatory actions by affected countries, and certain foreign governments have instituted or are considering imposing trade sanctions on certain U.S. manufactured goods. The escalation of protectionist or retaliatory trade measures in either the United States or any other countries in which we do business, such as a change in tariff structures, export compliance or other trade policies, may increase the cost of, or otherwise interfere with, conducting our business.

Our failure to manage any of these risks successfully could harm our existing and future international operations and seriously impair our overall business.

If we are unable to enhance our existing solutions and develop new solutions, our growth will be harmed and we may not be able to achieve profitability.

Our ability to attract new customers and increase revenue from existing customers will depend in large part on our ability to enhance and improve our existing solutions and to introduce new solutions. The success of any enhancement or new solution depends on several factors, including the timely completion, introduction and market acceptance of the enhancement or solution. Any new enhancement or solution we develop or acquire may not be introduced in a timely or cost-effective manner and may not achieve the broad market acceptance necessary to generate significant revenue. If we are unable to successfully develop or acquire new solutions or enhance our existing solutions to meet customer requirements, we may not grow as expected and we may not achieve profitability.

We cannot be certain that our development activities will be successful or that we will not incur delays or cost overruns. Furthermore, we may not have sufficient financial resources to identify and develop new technologies and bring enhancements or new solutions to market in a timely and cost-effective manner. New technologies and enhancements could be delayed or cost more than we expect, and we cannot ensure that any of these solutions will be commercially successful if and when they are introduced.

If we are unable to cost-effectively scale or adapt our existing architecture to accommodate increased traffic, technological advances or changing customer requirements, our operating results could be harmed.

As our customer base grows, the number of users accessing our solutions over the Internet will correspondingly increase. Increased traffic could result in slow access speeds and response times. Since our customer agreements often include service availability commitments, slow speeds or our failure to accommodate increased traffic could result in breaches of our service level agreements or obligate us to issue service credits. In addition, the market for our solutions is characterized by rapid technological advances and changes in customer and regulatory requirements. In order to accommodate increased traffic and respond to technological advances and evolving customer and regulatory requirements, we expect that we will be required to make future investments in our network architecture. If we do not implement future upgrades to our network architecture cost-effectively, or if we experience prolonged delays or unforeseen difficulties in connection with upgrading our network architecture, our service quality may suffer and our operating results could be harmed.

If we fail to manage our sales and distribution channels effectively or if our partners choose not to market and sell our solutions to their customers, our operating results could be adversely affected.

We have derived and anticipate that in the future we will continue to derive a substantial portion of the sales of our solutions through channel partners. In order to scale our channel program to support growth in our business, it is important that we continue to help our partners enhance their ability to independently sell and deploy our solutions. We may be unable to continue to successfully expand and improve the effectiveness of our channel sales program.

Our agreements with our channel partners are generally non-exclusive and some of our channel partners have entered, and may continue to enter, into strategic relationships with our competitors or are competitors themselves. Further, many of our channel partners have multiple strategic relationships and they may not regard us as significant for their businesses. Our channel partners may terminate their respective relationships with us with limited or no notice and with limited or no penalty, pursue other partnerships or relationships, or attempt to develop or acquire products or services that compete with our solutions. Our partners also may impair our ability to enter into other desirable strategic relationships. If our channel partners do not effectively market and sell our solutions, if they choose to place greater emphasis on products of their own or those offered by our competitors, or if they fail to meet the needs of our customers, our ability to grow our business and sell our solutions may be adversely affected. Similarly, the loss of a substantial number of our channel partners, and our possible inability to replace them, the failure to recruit additional channel partners, any reduction or delay in their sales of our solutions, or any conflicts between channel sales and our direct sales and marketing activities could materially and adversely affect our results of operations.

Because we recognize revenue from subscriptions over the term of the relevant service period, decreases or increases in sales are not immediately reflected in full in our operating results.

We recognize revenue from subscriptions over the term of the relevant service period, which typically range from one to three years, with some up to five years. As a result, most of our quarterly revenue from subscriptions results from agreements entered into during previous quarters. Consequently, a shortfall in demand for our solutions in any quarter may not significantly reduce our subscription revenue for that quarter, but could negatively affect subscription revenue in future quarters. We may be unable to adjust our cost structure to compensate for this potential shortfall in subscription revenue. Accordingly, the effect of significant downturns in sales of subscriptions may not be fully reflected in our results of operations until future periods. Our subscription model also makes it difficult for us to rapidly increase our subscription revenue through additional sales in any period, as subscription revenue must be recognized over the term of the contract.

Interruptions or delays in services provided by third parties could impair the delivery of our service and harm our business.

We currently serve our customers from third party data center facilities and resources located in the United States, Canada, Australia and Europe. We also rely on bandwidth providers, Internet service providers, mobile networks and other third-party IT service providers to operate our business and to deliver our solutions. Any damage to, or failure or disruption of, the systems of our third party providers could result in interruptions to our service. If for any reason our arrangement with one or more of our data centers is terminated we could experience additional expense in arranging for new facilities and support. Our data center facilities providers have no obligations to renew their agreements with us on commercially reasonable terms, or at all. If we are unable to renew our agreements with the facilities providers on commercially reasonable terms or if in the future we add additional data center facility providers, we may experience costs or downtime in connection with the transfer to, or the addition of, new data center facilities. In addition, the failure of our data centers to meet our capacity requirements could result in interruptions in the availability of our solutions, impair the functionality of our solutions or impede our ability to scale our operations. As we continue to add data centers, restructure our data management plans, and increase capacity in existing and future data centers, we may move or transfer our data and our customers' data. Despite precautions taken during such processes and procedures, any unsuccessful data transfers may impair the delivery of our service, and we may

experience costs or downtime in connection with the transfer of data to other facilities. Similarly, some of our solutions' features run or depend on IT services run by third parties, such as data feeds or public clouds, and an extended failure of such services might materially and adversely impact our ability to provide our services to our customers. Furthermore, some of our sales and business operations, such as CRM and billing and invoicing depend in part on third-party IT service providers and if those services were to be unavailable for extended periods of time it might materially and adversely affect our ability to operate.

We also depend on access to the Internet through third party bandwidth providers to operate our business. If we lose the services of one or more of our bandwidth providers, or if these providers experience outages, for any reason, we could experience disruption in delivering our solutions or we could be required to retain the services of a replacement bandwidth provider. Our business also depends on our customers having high-speed access to the Internet. Any Internet outages or delays could adversely affect our ability to provide our solutions to our customers.

Our operations rely heavily on the availability of electricity, which also comes from third-party providers. If we or the third-party data center facilities that we use to deliver our services were to experience a major power outage or if the cost of electricity were to increase significantly, our operations and financial results could be harmed. If we or our third party data centers were to experience a major power outage, we or they would have to rely on back-up generators, which might not work properly or might not provide an adequate power supply during a major power outage. Such a power outage could result in a significant disruption of our business.

The occurrence of an extended interruption of our or third party services for any reason could result in lengthy interruptions in our services or in the delivery of customers' email and require us to provide service credits, refunds, indemnification payments or other payments to our customers, and could also result in the loss of customers. While we have business continuity and disaster recovery plans and contingencies in place, there can be no assurance that they will be adequate in the event of an extended or severe disruption.

Any failure to offer high-quality technical support services may adversely affect our relationships with our customers and harm our financial results.

Once our solutions are deployed, our customers depend on our support organization to resolve any technical issues relating to our solutions. In addition, our sales process is highly dependent on our solutions and business reputation and on strong recommendations from our existing customers. Any failure to maintain high-quality technical support, or a market perception that we do not maintain high-quality support, could harm our reputation, adversely affect our ability to sell our solutions to existing and prospective customers, and harm our business, operating results and financial condition.

We offer technical support services with many of our solutions. We may be unable to respond quickly enough to accommodate short-term increases in customer demand for support services. We also may be unable to modify the format of our support services to compete with changes in support services provided by competitors. Increased customer demand for these services, without corresponding revenue, could increase costs and adversely affect our operating results.

We have outsourced a substantial portion of our worldwide customer support functions to third party service providers. If these companies experience financial difficulties, do not maintain sufficiently skilled workers and resources to satisfy our contracts, or otherwise fail to perform at a sufficient level, the level of support services to our customers may be significantly disrupted, which could materially harm our reputation and our relationships with these customers.

If we fail to develop or protect our brand, our business may be harmed.

We believe that developing and maintaining awareness and integrity of our company and our brand are important to achieving widespread acceptance of our existing and future offerings and are important elements in attracting new customers. We believe that the importance of brand recognition will increase as competition in our market further intensifies. Successful promotion of our brand will depend on the effectiveness of our marketing efforts and on our ability to provide reliable and useful solutions at competitive prices. We plan to continue investing substantial resources to promote our brand, both domestically and internationally, but there is no guarantee that our brand development strategies will enhance the recognition of our brand. Some of our existing and potential competitors have well-established brands with greater recognition than we have. If our efforts to promote and maintain our brand are

not successful, our operating results and our ability to attract and retain customers may be adversely affected. In addition, even if our brand recognition and loyalty increase, this may not result in increased use of our solutions or higher revenue.

In addition, independent industry analysts often provide reviews of our solutions, as well as those of our competitors, and perception of our solutions in the marketplace may be significantly influenced by these reviews. We have no control over what these industry analysts report, and because industry analysts may influence current and potential customers, our brand could be harmed if they do not provide a positive review of our solutions or view us as a market leader.

The steps we have taken to protect our intellectual property rights may not be adequate.

We rely on a combination of contractual rights, trademarks, trade secrets, patents and copyrights to establish and protect our intellectual property rights. These offer only limited protection, however, and the steps we have taken to protect our proprietary technology may not deter its misuse, theft or misappropriation. Any of our patents, copyrights, trademarks or other intellectual property rights may be challenged by others or invalidated through administrative process or litigation. Competitors may independently develop technologies or products that are substantially equivalent or superior to our solutions or that inappropriately incorporate our proprietary technology into their products. Competitors may hire our former employees who may misappropriate our proprietary technology or misuse our confidential information. Although we rely in part upon confidentiality agreements with our employees, consultants and other third parties to protect our trade secrets and other confidential information, those agreements may not effectively prevent disclosure of trade secrets and other confidential information and may not provide an adequate remedy in the event of misappropriation of trade secrets or unauthorized disclosure of confidential information. In addition, others may independently discover our trade secrets and confidential information, and in such cases we could not assert any trade secret rights against such parties.

We might be required to spend significant resources to monitor and protect our intellectual property rights. We may initiate claims or litigation against third parties for infringement of our intellectual property rights or misappropriation of our trade secrets, or to establish the validity of our intellectual property rights. Any litigation, whether or not it is resolved in our favor, could result in significant expense to us and divert the efforts of our technical and management personnel, which may adversely affect our business, operating results and financial condition. Certain jurisdictions may not provide adequate legal infrastructure for effective protection of our intellectual property rights. Changing legal interpretations of liability for unauthorized use of our solutions or lessened sensitivity by corporate, government or institutional users to refraining from intellectual property piracy or other infringements of intellectual property could also harm our business.

Our issued patents may not provide us with any competitive advantages or may be challenged by third parties, and our patent applications may never be granted at all. It is possible that innovations for which we seek patent protection may not be protectable. 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. Given the cost, effort, risks and downside of obtaining patent protection, including the requirement to ultimately disclose the invention to the public, we may not choose to seek patent protection for certain innovations. However, such patent protection could later prove to be important to our business. Even if issued, there can be no assurance that any patents will have the coverage originally sought or adequately protect our intellectual property, as the legal standards relating to the validity, enforceability and scope of protection of patent and other intellectual property rights are uncertain. Any patents that are issued may be invalidated or otherwise limited, or may lapse or may be abandoned, enabling other companies to better develop products that compete with our solutions, which could adversely affect our competitive business position, business prospects and financial condition.

We cannot assure you that the measures we have taken to protect our intellectual property will adequately protect us, and any failure to protect our intellectual property could harm our business.

Third parties claiming that we infringe their intellectual property rights could cause us to incur significant legal expenses and prevent us from selling our solutions.

Companies in the software and technology industries, including some of our current and potential competitors, own large numbers of patents, copyrights, trademarks and trade secrets and frequently enter into litigation based on allegations of infringement, misappropriation or other violations of intellectual property rights. In addition, many of these companies have the capability to dedicate substantially greater resources to enforce their intellectual property rights and to defend claims that may be brought against them. The litigation may involve patent holding companies or other adverse patent owners who have no relevant product revenue and against whom our potential patents may

provide little or no deterrence. We have received, and may in the future receive, notices that claim we have infringed, misappropriated or otherwise violated other parties' intellectual property rights. In the past we have been involved in litigation involving such allegations of infringement. To the extent we gain greater visibility, we could face a higher risk of being the subject of intellectual property infringement claims, which is not uncommon with respect to software technologies in general and information security technology in particular. There may be third party intellectual property rights, including issued or pending patents that cover significant aspects of our technologies or business methods. Any intellectual property claims, with or without merit, could be very time

consuming, could be expensive to settle or litigate and could divert our management's attention and other resources. These claims could also subject us to significant liability for damages, potentially including treble damages if we are found to have willfully infringed patents or copyrights. These claims could also result in our having to stop using technology found to be in violation of a third-party's rights. We might be required to seek a license for the intellectual property, which may not be available on reasonable terms or at all. Even if a license were available, we could be required to pay significant royalties, which would increase our operating expenses. As a result, we may be required to develop alternative non-infringing technology, which could require significant effort and expense. If we cannot license or develop technology for any infringing aspect of our business, we would be forced to limit or stop sales of one or more of our solutions or features of our solutions and may be unable to compete effectively. Any of these results would harm our business, operating results and financial condition.

In addition, our agreements with customers and channel partners include indemnification provisions under which we agree to indemnify them for losses suffered or incurred as a result of claims of intellectual property infringement and, in some cases, for damages caused by us to property or persons. Large indemnity payments could harm our business, operating results and financial condition.

We rely on technology and intellectual property licensed from other parties, the failure or loss of which could increase our costs and delay or prevent the delivery of our solutions.

We utilize various types of software and other technology, as well as intellectual property rights, licensed from unaffiliated third parties in order to provide certain elements of our solutions. Any errors or defects in any third party technology could result in errors in our solutions that could harm our business. In addition, licensed technology and intellectual property rights may not continue to be available on commercially reasonable terms, or at all. While we believe that there are currently adequate replacements for the third party technology we use, any loss of the right to use any of this technology on commercially reasonable terms, or at all, could result in delays in producing or delivering our solutions until equivalent technology is identified and integrated, which delays could harm our business. In this situation we would be required to either redesign our solutions to function with software available from other parties or to develop these components ourselves, which would result in increased costs. Furthermore, we might be forced to limit the features available in our current or future solutions. If we fail to maintain or renegotiate any of these technology or intellectual property licenses, we could face significant delays and diversion of resources in attempting to develop similar or replacement technology, or to license and integrate a functional equivalent of the technology.

Some of our solutions contain "open source" software, and any failure to comply with the terms of one or more of these open source licenses could negatively affect our business.

Some of our solutions are distributed with software licensed by its authors or other third parties under so-called "open source" licenses, which may include, by way of example, the GNU General Public License, or GPL, and the Apache License. Some of these 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. By the terms of certain open source licenses, we could be required to release the source code of our proprietary software, and to make our proprietary software available under open source licenses, if we combine our proprietary software with open source software in a certain manner. In the event that portions of our proprietary software are determined to be subject to an open source license, we could be required to publicly release the affected portions of our source code, re-engineer all or a portion of our technologies, or otherwise be limited in the licensing of our technologies, each of which could reduce or eliminate the value of our technologies and 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 licensors generally do not provide warranties or controls on the origin of the software. We have established processes to help alleviate these risks, including a review process for screening requests from our development organizations for the use of open source software, but we cannot be sure that all open source software is submitted for approval prior to use in our solutions, that our programmers have not incorporated open

source software into our proprietary solutions and technologies or that they will not do so in the future. In addition, many of the risks associated with usage of open source software cannot be eliminated, and could, if not properly addressed, negatively affect our business.

Governmental regulations affecting the export of certain of our solutions could negatively affect our business.

Some of our products are subject to U.S. export controls, and we incorporate encryption technology into certain of our products. These encryption products and the underlying technology may be exported outside the United States only with the required export authorizations, including by license, a license exception or other appropriate government authorizations, including the filing of an encryption registration. Governmental regulation of encryption technology and regulation of imports or exports, or our failure to obtain required import or export approval for our products, could harm our international sales and adversely affect our revenue.

Failure to comply with such regulations, whether by us or companies that we have acquired, in the future could result in penalties, costs, and restrictions on export privileges, which could also harm our operating results.

We have, and may further, expand through acquisitions of, or investments in, other companies, which may divert our management's attention, dilute our stockholders' ownership interests and consume corporate resources that otherwise would be necessary to sustain and grow our business.

We have made multiple acquisitions in the past, and our business strategy may, from time to time, continue to include acquiring complementary products, technologies or businesses. We also may enter into relationships with other businesses in order to expand our solutions, which could involve preferred or exclusive licenses, additional channels of distribution, or investments by or between the two parties. Negotiating these transactions can be time consuming, difficult and expensive, and our ability to close these transactions may be subject to third party approvals, such as government regulation, which are beyond our control. Consequently, we can make no assurance that these transactions, once undertaken and announced, will close.

These transactions may result in unforeseen operating difficulties and expenditures. In particular, we may encounter difficulties assimilating or integrating the businesses, technologies, products, personnel or operations of acquired companies, particularly if the key personnel of the acquired business choose not to work for us, and we may have difficulty retaining the customers of any acquired business. Acquisitions may also disrupt our ongoing business, divert our resources and require significant management attention that would otherwise be available for development of our business. Any acquisition or investment could expose us to unknown liabilities.

In addition, as of December 31, 2018, we had \$597.1 million in goodwill and intangible assets, net of accumulated amortization, recorded on our balance sheet. We will incur expenses related to the amortization of intangible assets and we may in the future need to incur charges with respect to the impairment of goodwill or intangible assets, which could adversely affect our operating results. Moreover, we cannot assure you that the anticipated benefits of any acquisition or investment would be realized or that we would not be exposed to unknown liabilities. In connection with these types of transactions, we may issue additional equity securities that would dilute our stockholders' ownership interests, use cash that we may need in the future to operate our business, incur debt on terms unfavorable to us or that we are unable to repay, incur large charges or substantial liabilities, encounter difficulties integrating diverse business cultures, and become subject to adverse tax consequences, substantial depreciation or deferred compensation charges. These challenges related to acquisitions or investments could adversely affect our business, operating results and financial condition.

If we are unable to attract and retain qualified employees, lose key personnel, fail to integrate replacement personnel successfully, or fail to manage our employee base effectively, we may be unable to develop new and enhanced solutions, effectively manage or expand our business, or increase our revenue.

Our future success depends upon our ability to recruit and retain key management, technical, sales, marketing, finance, and other critical personnel. Competition for qualified management, technical and other personnel is intense, and we may not be successful in attracting and retaining such personnel. If we fail to attract and retain qualified employees, our ability to grow our business could be harmed. Our officers and other key personnel are

employees-at-will, and we cannot assure you that we will be able to retain them. Competition for people with the specific skills that we require is significant. In order to attract and retain personnel in a competitive marketplace, we believe that we must provide a competitive compensation package, including cash and equity based compensation. Volatility in our stock price may from time to time adversely affect our ability to recruit or retain employees. If we are unable to hire and retain qualified employees, or conversely, if we fail to manage employee performance or reduce staffing levels when required by market conditions, our business and operating results could be adversely affected.

28

In addition, hiring, training, and successfully integrating replacement personnel could be time consuming, may cause additional disruptions to our operations, and may be unsuccessful, which could negatively impact future revenue.

Changes in laws and/or regulations related to the Internet or changes in the Internet infrastructure itself may diminish the demand for our solutions, and could have a negative impact on our business.

The future success of our business depends upon the continued use of the Internet as a primary medium for commerce, communication and business applications. Federal, state or foreign government bodies or agencies have in the past adopted, and may in the future adopt, laws or regulations affecting data privacy and the use of the Internet as a commercial medium. Changes in these laws or regulations could require us to modify our solutions in order to comply with these changes. In addition, government agencies or private organizations may begin to impose taxes, fees or other charges for accessing the Internet or commerce conducted via the Internet. These laws or charges could limit the growth of Internet related commerce or communications generally, result in a decline in the use of the Internet and the viability of Internet based applications such as ours and reduce the demand for our solutions.

The legal and regulatory framework also drives demand for our solutions. Our customers are subject to laws, regulations and internal policies that mandate how they process, handle, store, use and transmit a variety of sensitive data and communications. These laws and regulations are subject to revision, change and interpretation at any time, and any such change could either help or hurt the demand for our solutions. We cannot be sure that the legal and regulatory framework in any given jurisdiction will be favorable to our business or that we will be able to sustain or grow our business if there are any adverse changes to these laws and regulations.

If we are required to collect sales and use taxes on the solutions we sell, we may be subject to liability for past sales and our future sales may decrease.

State and local taxing jurisdictions have differing rules and regulations governing sales and use taxes, and these rules and regulations are subject to varying interpretations that may change over time. In particular, the applicability of sales taxes to our subscription services in various jurisdictions is unclear. It is possible that we could face sales tax audits and that our liability for these taxes could exceed our estimates as state tax authorities could still assert that we are obligated to collect additional amounts as taxes from our customers and remit those taxes to those authorities. We could also be subject to audits with respect to state and international jurisdictions for which we have not accrued tax liabilities. A successful assertion that we should be collecting additional sales or other taxes on our services in jurisdictions where we have not historically done so and do not accrue for sales taxes could result in substantial tax liabilities for past sales, discourage customers from purchasing our application or otherwise harm our business and operating results.

Adverse conditions in the national and global economies and financial markets may adversely affect our business and financial results.

Adverse macroeconomic conditions could negatively affect our customers, thereby impacting our business, operating results or financial condition. Challenging economic conditions worldwide have from time to time contributed, and may continue to contribute, to slowdowns in the information technology industry, resulting in reduced demand for our solutions as a result of continued constraints on IT-related capital spending by our customers and increased price competition for our solutions. Moreover, we target some of our solutions to the financial services industry and therefore if there is consolidation in that industry, or layoffs, or lack of funding for IT purchases, our business may suffer. If economic conditions deteriorate, our business, financial condition and operating results could be materially and adversely affected.

Our business is subject to the risks of earthquakes, fire, power outages, floods and other catastrophic events, and to interruption by manmade problems such as terrorism.

Natural disasters or other catastrophic events may cause damage or disruption to our operations, international commerce and the global economy, and thus could have a strong negative effect on us. We have significant operations in the Silicon Valley area of Northern California, a region known for seismic activity. A major earthquake or other natural disaster, fire, act of terrorism or other catastrophic event that results in the destruction or disruption of any of our critical business operations or information technology systems could severely affect our ability to conduct normal business operations and, as a result, our future operating results could be harmed. These negative events could make it difficult or impossible for us to deliver our services to our customers, and could decrease demand for our services. Because we do not carry earthquake insurance for direct quake related losses, and significant recovery time could be required to resume operations, our financial condition and operating results could be materially adversely affected in the event of a major earthquake or catastrophic event.

A portion of our revenue is generated by sales to government entities, which are subject to a number of challenges and risks.

Sales to U.S. and foreign federal, state and local governmental agency customers have accounted for a portion of our revenue in past periods, and we may in the future increase sales to government entities. Sales into government entities are subject to a number of risks. Selling to government entities can be highly competitive, expensive and time consuming, often requiring significant upfront time and expense without any assurance that we will win a sale. We have invested in the creation of a cloud offering that has been certified under both the Federal Information Security Management Act and the Federal Risk and Authorization Management Program for government usage but we cannot be sure that we will continue to sustain or renew this certification, that the government will continue to mandate such certification or that other government agencies or entities will use this cloud offering. Government demand and payment for our solutions may be impacted by public sector budgetary cycles and funding authorizations, with funding reductions or delays adversely affecting public sector demand for our solutions. Government entities may have contractual or other legal rights to terminate contracts with our distributors and resellers for convenience or due to a default, and any such termination may adversely impact our future results of operations. For example, if the distributor receives a significant portion of its revenue from sales to such governmental entity, the financial health of the distributor could be substantially harmed, which could negatively affect our future sales to such distributor. Governments routinely investigate and audit government contractors' administrative processes, and any unfavorable audit could result in the government refusing to continue buying our solutions, a reduction of revenue or fines or civil or criminal liability if the audit uncovers improper or illegal activities. Any such penalties could adversely impact our results of operations in a material way.

If we fail to maintain an effective system of internal controls, our ability to produce timely and accurate financial statements or comply with applicable regulations could be impaired.

As a public company, we are subject to the reporting requirements of the Exchange Act, the Sarbanes Oxley Act of 2002 (the "Sarbanes-Oxley Act"), and the rules and regulations of the NASDAQ Global Market. We expect that the requirements of these rules and regulations will continue to increase our legal, accounting and financial compliance costs, make some activities more difficult, time consuming and costly, and place significant strain on our personnel, systems and resources.

The Sarbanes-Oxley Act requires, among other things, that we maintain effective disclosure controls and procedures and internal control over financial reporting. We are continuing to develop and refine our disclosure controls and other procedures that are designed to ensure that information required to be disclosed by us in the reports that we file with the SEC, is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms, and that information required to be disclosed in reports under the Exchange Act is accumulated and communicated to our principal executive and financial officers.

Our current controls and any new controls that we develop may become inadequate because of changes in conditions in our business. In addition, because we have acquired companies in the past and may continue to do so in the future, we will also need to expend resources to integrate the controls of these acquired entities with ours. Further, weaknesses in our internal controls may be discovered in the future. Any failure to develop or maintain effective controls, or any difficulties encountered in their implementation or improvement, could harm our operating

results or cause us to fail to meet our reporting obligations and may result in a restatement of our financial statements for prior periods. Any failure to implement and maintain effective internal controls also could adversely affect the results of periodic management evaluations and annual independent registered public accounting firm report regarding the effectiveness of our internal control over financial reporting that we are required to include in our Annual Report on Form 10-K under Section 404 of the Sarbanes Oxley Act. Ineffective disclosure controls and procedures and internal control over financial reporting could also cause investors to lose confidence in our reported financial and other information, which would likely have a negative effect on the trading price of our common stock.

In order to maintain and improve the effectiveness of our disclosure controls and procedures and internal control over financial reporting, we have expended, and anticipate that we will continue to expend, significant resources, including accounting related costs, and provide significant management oversight. Any failure to maintain the adequacy of our internal controls, or consequent inability to produce accurate financial statements on a timely basis, could increase our operating costs and could materially impair our ability to operate our business. In the event that we or our independent registered public accounting firm are not able to complete the work required under Section 404 of the Sarbanes-Oxley Act on a timely basis, or we are not able to demonstrate compliance with Section 404, we could be subject to late filings of our annual and quarterly reports, restatements of consolidated financial statements or other corrective disclosure, and, investors may lose confidence in our operating results and our stock price could decline. In addition, if we are unable to continue to meet these requirements, we may not be able to remain listed on the NASDAQ Global Market.

We may not be able to utilize a significant portion of our net operating loss or research tax credit carryforwards, which could adversely affect our profitability.

As of December 31, 2018, we had federal and state net operating loss carryforwards due to prior period losses, some of which if not utilized will continue to expire in 2019 for federal and state purposes. We also have federal research tax credit carryforwards, which began to expire in 2018. These net operating loss and research tax credit carryforwards could expire unused and be unavailable to offset future income tax liabilities, which could adversely affect our profitability.

In addition, under Sections 382 and 383 of the Internal Revenue Code of 1986, as amended, our ability to utilize net operating loss carryforwards or other tax attributes, such as research tax credits, in any taxable year may be limited if we experience an “ownership change.” An “ownership change” generally occurs if one or more stockholders or groups of stockholders who own at least 5% of our stock increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three-year period. Similar rules may apply under state tax laws.

Future issuances of our stock could cause an “ownership change.” It is possible that any future ownership change could have a material effect on the use of our net operating loss carryforwards or other tax attributes, which could adversely affect our profitability.

Risks Related to the Ownership of Our Common Stock

Our stock price has been volatile in the past and may be subject to volatility in the future.

The trading price of our common stock has been volatile historically, and is likely to continue to be subject to wide fluctuations in response to various factors described below. Factors affecting the market price of our securities include:

- variations in our revenue, billings, gross margin, operating results, free cash flow, loss per share and how these results compare to analyst expectations;
- forward looking guidance that we may provide regarding financial metrics such as billings, revenue, gross margin, operating results, free cash flow, and loss per share;

• announcements of technological innovations, new products or services, strategic alliances, acquisitions or significant agreements by us or by our competitors;
• disruptions in our cloud-based operations or services or disruptions of other prominent cloud-based operations or services;

31

- the economy as a whole, market conditions in our industry, and the industries of our customers;
- trading activity by directors, executive officers and significant stockholders, or the perception in the market that the holders of a large number of shares intend to sell their shares;
- the size of our market float and significant option exercises;
- any future issuances of securities; and
- any other factors discussed herein.

In addition, the stock markets in general and the NASDAQ Global Market in particular, have experienced substantial price and volume volatility that is often seemingly unrelated to the operating results of any particular companies. Moreover, if the market for technology stocks, especially security and cloud computing-related stocks, or the stock market in general experiences uneven investor confidence, the market price of our common stock could decline for reasons unrelated to our business, operating results or financial condition. The market price for our stock might also decline in reaction to events that affect other companies within, or outside, our industry, even if these events do not directly affect us. Some companies that have experienced volatility in the trading price of their stock have been subject of securities litigation. If we are the subject of such litigation, it could result in substantial costs and a diversion of management's attention and resources.

Anti-takeover provisions contained in our certificate of incorporation and bylaws, as well as provisions of Delaware law, could impair a takeover attempt.

Our certificate of incorporation and bylaws contain provisions that could have the effect of rendering more difficult, delaying or preventing an acquisition of our company deemed undesirable by our board of directors. These provisions could also reduce the price that investors might be willing to pay in the future for shares of our common stock and result in the market price of our common stock being lower than it would be without these provisions. Our corporate governance documents include provisions:

- creating a classified board of directors whose members serve staggered three-year terms;
- authorizing "blank check" preferred stock, which could be issued by our board without stockholder approval which may contain voting, liquidation, dividend and other rights which are superior to our common stock;
- limiting the liability of, and providing indemnification to, our directors and officers;
- limiting the ability of our stockholders to call and bring business before special meetings by providing that any stockholder action must be effected at a duly called meeting of the stockholders and not by a consent in writing, and providing that only our board of directors, the chairman of our board of directors, our Chief Executive Officer or President may call a special meeting of the stockholders; and
- requiring advance notice of stockholder proposals for business to be conducted at meetings of our stockholders and for nominations of candidates for election to our board of directors.

These provisions, alone or together, could frustrate, delay or prevent hostile takeovers and changes in control or changes in our management.

As a Delaware corporation, we are also subject to provisions of Delaware law, including Section 203 of the Delaware General Corporation law, which prevents some stockholders holding more than 15% of our outstanding common stock from engaging in certain business combinations merging or combining with us without approval of the holders of a substantial majority of all of our outstanding common stock.

Our failure to raise additional capital or generate the significant capital necessary to expand our operations and invest in new solutions could reduce our ability to compete and could harm our business.

We may need to raise additional funds, and we may not be able to obtain additional debt or equity financing on favorable terms, if at all. If we raise additional equity financing, our stockholders may experience significant dilution of their ownership interests and the per share value of our common stock could decline. If we issue equity securities in any additional financing, the new securities may have rights and preferences senior to our common stock. If we engage in debt financing, we may be required to accept terms that restrict our ability to incur additional indebtedness and force us to maintain specified liquidity or other ratios. If we need additional capital and cannot raise it on acceptable terms, we may not be able to, among other things:

- develop or enhance our application and services;
- continue to expand our product development, sales and marketing organizations;
- acquire complementary technologies, products or businesses;
- expand operations, in the United States or internationally;
- hire, train and retain employees; or

respond to competitive pressures or unanticipated working capital requirements.

Future sales of our common stock in the public market could lower the market price for our common stock and adversely impact the trading price of the Notes.

In the future, we may sell additional shares of our common stock to raise capital. In addition, a substantial number of shares of our common stock is reserved for issuance upon the exercise of stock options, the vesting of restricted stock units and restricted stock pursuant to our employee benefit plans, for purchase by employees under our employee stock purchase plan. We cannot predict the size of future issuances or the effect, if any, that they may have on the market price for our common stock. The issuance and sale of substantial amounts of common stock, or the perception that such issuances and sales may occur, could adversely affect the market price of our common stock and impair our ability to raise capital through the sale of additional equity securities.

We do not anticipate paying cash dividends, and accordingly, stockholders must rely on stock appreciation for any return on their investment.

We do not anticipate paying cash dividends on our common stock in the future. As a result, only appreciation of the price of our common stock will provide a return to our stockholders. Investors seeking cash dividends should not invest in our common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our corporate headquarters, which includes our operations and research and development facilities, is located in Sunnyvale, California, and currently consists of 95,557 square feet of space under a lease that expires in 2020, with a five-year extension option, and 43,925 square feet space under a lease that expires in 2024, with a five-year extension option.

In October 2018, we entered into a lease agreement to lease approximately 242,400 square feet of corporate office space in Sunnyvale, California, which is expected to become our new corporate headquarters beginning in 2020. The property will be constructed by the landlord, with the completion date expected to occur between April and August 2020. The lease has term of 127 months and a five-year extension option.

We lease additional U.S. offices in California, Utah, Pennsylvania, Texas, Indiana and Colorado. We also lease offices in Toronto, Canada; Paris, France; Tokyo, Japan; Munich, Germany; Reading, United Kingdom; Belfast, Ireland; Sydney, Australia; and Herzliya, Israel. We believe our facilities are adequate for our current needs and for the foreseeable future.

The following is a list of our locations and the primary functions.

Location	Primary function
Sunnyvale, California, U.S.	Research and development, sales, marketing and administration
San Francisco, California, U.S.	Research and development, sales and marketing
Draper, Utah, U.S.	Research and development, sales, marketing and administration
Pittsburgh, Pennsylvania, U.S.	Research and development, sales, marketing and administration
Austin, Texas, U.S.	Research and development, marketing
Indianapolis, Indiana, U.S.	Research and development
Denver and Broomfield, Colorado	Research and development, sales and marketing
Herzliya, Israel	Research and development
Toronto, Canada	Research and development, sales, marketing and administration
Reading, United Kingdom	Research and development, sales and marketing
Paris, France	Research and development, sales and marketing
Tokyo, Japan	Sales and marketing
Munich, Germany	Sales and marketing
Belfast, Ireland	Research and development, sales and marketing
Sydney, Australia	Sales and marketing

We operate seventeen data centers at third-party facilities throughout the world: eleven in the United States, two in Canada, one in the Netherlands, one in France, one in Germany and one in Australia.

ITEM 3. LEGAL PROCEEDINGS

From time to time, we may be involved in legal proceedings and subject to claims in the ordinary course of business.

Although the results of these proceedings and claims cannot be predicted with certainty, we do not believe the ultimate cost to resolve these matters would individually, or taken together, have a material adverse effect on our business, operating results, cash flows or financial condition. Regardless of the outcome, such proceedings can have an adverse impact on us because of defense and settlement costs, diversion of resources and other factors, and there can be no assurances that favorable outcomes will be obtained.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II.

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

Our common stock is traded on the NASDAQ Global Market, under the symbol PFPT.

As of February 8, 2019, there were 34 stockholders of record, although we believe that there are a larger number of beneficial owners as many of our shares of our common stock are held by brokers and other institutions on behalf of stockholders.

Dividend Policy

We have never declared or paid any cash dividends on our common stock. We currently intend to retain any future earnings and do not expect to pay any cash dividends on our common stock for the foreseeable future. Any determination to pay dividends in the future will be at the discretion of our board of directors and will be dependent on a number of factors, including our earnings, capital requirements and overall financial conditions.

Unregistered Sales of Equity Securities

Not applicable.

Use of Proceeds from Public Offering of Common Stock

There has been no material change in the use of proceeds from our initial public offering in April 2012.

Stock Performance Graph

The following graph shows a comparison of the five years ended December 31, 2018, of the cumulative total return for our common stock, the NASDAQ Composite Index, and the NASDAQ Computer Index. The graph assumes an investment of \$100 on December 31, 2013 and reinvestment of any dividends. The comparisons in the graph below are required by the Securities and Exchange Commission and are not intended to forecast or be indicative of possible future performance of our common shares.

	December 31, 2013	December 31, 2014	December 31, 2015	December 31, 2016	December 31, 2017	December 31, 2018
Proofpoint, Inc.	\$ 100.00	\$ 145.40	\$ 195.99	\$ 212.99	\$ 267.74	\$ 252.67
NASDAQ Composite - Total Returns	\$ 100.00	\$ 115.31	\$ 123.34	\$ 134.27	\$ 174.07	\$ 169.13
NASDAQ Computer Index	\$ 100.00	\$ 120.51	\$ 128.04	\$ 143.75	\$ 199.47	\$ 192.13

The above stock Performance Graph and related information shall not be deemed “filed” with the SEC and is not to be incorporated by reference into any filing of Proofpoint, Inc. made under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended.

ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA

The following tables present selected historical financial data for our business. You should read this information together with “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and the consolidated financial statements, related notes and other financial information included elsewhere in this Annual Report on Form 10-K. The selected consolidated financial data in this section are not intended to replace the consolidated financial statements and are qualified in their entirety by the consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K.

We derived the consolidated statements of operations data for the years ended December 31, 2018, 2017 and 2016, and the consolidated balance sheet data as of December 31, 2018 and 2017 from our audited consolidated financial statements included elsewhere in this report. We derived the consolidated statements of operations data for the years ended December 31, 2015 and 2014 and the consolidated balance sheet data as of December 31, 2016, 2015 and 2014 from our consolidated financial statements not included in this report. Our historical results are not necessarily indicative of the results to be expected in the future.

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As a result of adoption of Accounting Standards Update (“ASU”) No. 2014-09, Revenue from Contracts with Customers: Topic 606 (“ASC 606”) in the first quarter of 2018, we have adjusted certain of the following financial data as of and for the years ended December 31, 2017 and 2016, as indicated by “as adjusted” note. See Note 2 of Notes to Consolidated Financial Statements included in Part II, Item 8 of this Annual Report on Form 10-K for further information regarding the adoption of ASC 606. We did not adjust the financial data as of and for the years ended December 31, 2015 and 2014 for ASC 606.

	Years Ended December 31,		2015	2014	
	2017	2016			
	2018	As Adjusted	As Adjusted	2015	2014
(in thousands, except per share data)					
Consolidated Statements of Operations Data:					
Revenue:					
Subscription	\$704,400	\$ 506,355	\$ 367,494	\$257,329	\$187,527
Hardware and services	12,594	13,326	10,843	8,068	8,080
Total revenue	716,994	519,681	378,337	265,397	195,607
Cost of revenue:(1)					
Subscription	180,253	125,832	94,716	71,746	53,136
Hardware and services	21,508	17,546	13,877	12,312	12,543
Total cost of revenue	201,761	143,378	108,593	84,058	65,679
Gross profit	515,233	376,303	269,744	181,339	129,928
Operating expense:(1)					
Research and development	185,391	129,803	98,506	74,459	51,903
Sales and marketing	345,368	248,694	189,324	148,414	98,333
General and administrative	86,185	52,735	52,774	36,616	26,679
Total operating expense	616,944	431,232	340,604	259,489	176,915
Operating loss	(101,711)	(54,929)	(70,860)	(78,150)	(46,987)
Interest expense	(14,168)	(25,597)	(23,538)	(18,000)	(11,213)
Other (expense) income, net	(1,102)	774	(1,103)	(1,927)	(2,230)
Loss before income taxes	(116,981)	(79,752)	(95,501)	(98,077)	(60,430)
Benefit from (provision for) income taxes	13,232	9,950	(986)	(635)	313
Net loss	\$(103,749)	\$(69,802)	\$(96,487)	\$(98,712)	\$(60,117)
Net loss per share, basic and diluted	\$(1.99)	\$(1.58)	\$(2.31)	\$(2.48)	\$(1.61)
Weighted average shares outstanding,					
basic and diluted	52,111	44,258	41,859	39,787	37,381

(1) Includes stock-based compensation and amortization of intangible assets as follows:

	Years Ended December 31,				
	2018	2017	2016	2015	2014
(in thousands)					
Stock-based compensation:					
Cost of subscription revenue	\$14,012	\$10,635	\$7,427	\$5,028	\$2,404
Cost of hardware and services revenue	\$2,287	\$1,893	\$1,494	\$1,098	\$604
Research and development	\$40,204	\$30,588	\$24,342	\$20,672	\$10,204
Sales and marketing	\$50,320	\$33,962	\$28,607	\$21,511	\$10,795
General and administrative	\$35,885	\$20,382	\$16,826	\$11,785	\$6,997

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Amortization of intangible assets:					
Cost of subscription revenue	\$26,971	\$14,512	\$9,423	\$7,079	\$4,157
Research and development	\$45	\$60	\$60	\$91	\$93
Sales and marketing	\$14,141	\$3,934	\$4,938	\$5,074	\$4,494
General and administrative	\$—	\$—	\$—	\$12	\$46

37

	As of December 31,				
	2017	2016			
	2018	As Adjusted	As Adjusted	2015	2014
	(in thousands)				
Consolidated Balance Sheet Data:					
Cash, cash equivalents and short-term					
investments	\$231,699	\$331,598	\$396,751	\$406,237	\$214,986
Deferred commissions, current and long-term	\$107,380	\$78,203	\$60,768	\$22,802	\$15,060
Property and equipment, net	\$70,627	\$73,617	\$52,523	\$34,501	\$18,718
Total assets	\$1,233,018	\$1,018,432	\$836,929	\$705,616	\$439,076
Convertible senior notes	\$—	\$197,858	\$366,541	\$345,699	\$161,396
Other debt, current and long-term	\$—	\$89	\$123	\$155	\$695
Deferred revenue, current and long-term	\$598,130	\$427,839	\$295,015	\$223,726	\$162,675
Total stockholders' equity	\$512,534	\$299,115	\$96,379	\$83,185	\$71,533

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

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our "Selected Consolidated Financial Data" and our consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K. This discussion contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those forward-looking statements below. Factors that could cause or contribute to those differences include, but are not limited to, those identified below and those discussed in the section entitled "Risk Factors" included elsewhere in this Annual Report on Form 10-K. This Annual Report on Form 10-K contains "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). These statements are often identified by the use of words such as "may," "will," "expect," "believe," "anticipate," "intend," "could," "estimate," or "continue," and similar expressions and variations. Such forward-looking statements are subject to risks, uncertainties and other factors that could cause actual results and the timing of certain events to differ materially from future results expressed or implied by such forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those identified herein, and those discussed in the section titled "Risk Factors", set forth in Part I, Item 1A of this Form 10-K. Except as required by law, we disclaim any obligation to update any forward-looking statements to reflect events or circumstances after the date of such statements.

Overview

Proofpoint is a leading next generation cybersecurity company that enables large and mid-sized organizations worldwide to protect their employees from advanced threats and compliance risks. Our security and compliance platform is comprised of an integrated suite of advanced threat protection, information protection, and brand protection solutions. These capabilities include email protection and authentication, advanced threat protection, data loss prevention, email encryption, SaaS application protection, response orchestration and automation, digital risk, security training, web browser isolation, archiving, eDiscovery, supervision, and secure communication. Our solutions are built on a flexible, cloud-based platform and leverage a number of proprietary technologies - including big data analytics, machine learning, deep content inspection, secure storage, advanced encryption, intelligent message routing, dynamic malware analysis, threat correlation, and virtual execution environments to address today's rapidly changing threat and compliance landscape.

Our platform addresses this growing challenge by not only protecting data as it flows into and out of the enterprise via on-premises and cloud-based email, social media and other cloud applications, but also by keeping track of this information as it is modified and distributed throughout the enterprise for compliance and data loss prevention, and securely archiving these communications for compliance and discovery. We help organizations reduce their critical risk in five major ways:

- Protecting users from the advanced attacks that target them via email, web, networks, social media, and cloud apps;
- Preventing the theft or inadvertent loss of sensitive information and, in turn, ensuring compliance with regulatory data protection mandates;
- Improving the resilience of end-users to the threats that target them and training them to be better caretakers of their organizations' critical data;
- Collecting, retaining, supervising and discovering communications and sensitive data for compliance and litigation support; and
- Enabling organizations to respond quickly to security issues, providing both the intelligence and the context to prioritize incidents and orchestrate remediation actions.

Our platform and its associated solutions are sold to customers on a subscription basis and can be deployed through our unique cloud-based architecture that leverages both our global data centers as well as optional points-of-presence behind our customers' firewalls. Our flexible deployment model enables us to deliver superior security and compliance while maintaining the favorable economics afforded by cloud computing, creating a competitive advantage for us over

legacy on-premises and cloud-only offerings.

39

We were founded in 2002 to provide a unified solution to help enterprises address their growing data security requirements. Our first solution was commercially released in 2003 to combat the burgeoning problem of spam and viruses and their impact on corporate email systems. To address the evolving threat landscape and the adoption of communication and collaboration systems beyond corporate email and networks, we have broadened our solutions to defend against a wide range of threats, including email, mobile apps and social media, to protect the information people create from both compromise and compliance risks, and to archive and govern corporate information. Today, our solutions are used worldwide to protect well over 100 million end-users at enterprise customers, and millions more via service providers through our Cloudmark division. As the threat environment has continued to evolve, we have dedicated significant resources to meet the ongoing challenges that this highly dynamic environment creates for our customers such as investing significantly to expand the breadth of our data protection platform as these expenditures are primarily in connection with the replacement and upgrade of equipment to lower the cost of deployment as well as to improve the efficiency for our cloud-based architecture.

Our business is based on a recurring revenue model. Our customers pay a subscription fee to license the various components of our SaaS platform for a contract term that is typically one to three years. At the end of the license term, customers may renew their subscription and in each year since the launch of our first solution in 2003, we have maintained a renewal rate with our existing customers of over 90%. We derive this retention rate by calculating the total annually recurring subscription revenue from customers currently using our SaaS platform and dividing it by the total annually recurring subscription revenue from both these current customers as well as all business lost through non-renewal.

We market and sell our solutions worldwide both directly through our sales teams and indirectly through a hybrid model where our sales organization actively assists our network of distributors and resellers. We also derive a lesser portion of our total revenue from the license of our solutions to strategic partners who offer our solutions in conjunction with one or more of their own products or services.

Our solutions are designed to be implemented, configured and operated without the need for any training or professional services. We offer various training and professional services for those customers that seek to develop deeper expertise in the use of our solutions or would like assistance with complex configurations or the importing of data. In some cases, we provide a hardware appliance to those customers that elect to host elements of our solution behind their firewall. Increasing adoption of virtualization in the data center has led to a decline in the sales of our hardware appliances and a shift towards our software-based virtual appliances, which are delivered as a download via the Internet. Our hardware and services offerings carry lower margins and are provided as a courtesy to our customers. We expect the overall proportion of revenue derived from the hardware and services offerings to generally remain below 5% of our total revenue.

Historically, the majority of our revenue was derived from our customers in the United States. We believe the markets outside of the United States offer an opportunity for growth and we intend to make additional investments in sales and marketing to expand in these markets. Revenue from customers outside of the United States grew 52% for the year ended December 31, 2018 as compared to the prior year. In terms of customer concentration, there was one partner who accounted for 12% of our total revenue in 2018 and 2017, though that partner sold to a number of end-users, none of which accounted for more than 10% of our total revenue in 2018 and 2017. No individual customers or partners accounted for more than 10% of our total revenue in 2016.

We have not been profitable to date and will need to grow revenue at a rate faster than our investments in cost of revenue and operating expenses in order to achieve profitability, as discussed in more detail below.

Key Opportunities and Challenges

The total costs associated with the teams tasked with closing business with new customers and additional business with our existing customers have represented more than 90% of our total sales and marketing costs since 2008.

Although we expect customers to be profitable over the duration of the customer relationship, the upfront costs typically exceed related revenue during the earlier periods of a contract. As a result, while our practice of invoicing our customers for the entire amount of the contract at the start of the term provides us with a relatively immediate contribution to cash flow, the revenue is recognized ratably over the term of the contract, and hence contributions toward operating income are limited in the period where the sales and marketing costs are incurred. Accordingly, an increase in the mix of new customers as a percentage of total customers would likely negatively

impact our near-term operating results. On the other hand, we expect that an increase in the mix of existing customers as a percentage of total customers would positively impact our operating results over time. As we accumulate customers that continue to renew their contracts, we anticipate that our mix of existing customers will increase, contributing to a decrease in our sales and marketing costs as a percentage of total revenue and a commensurate improvement in our operating income.

As part of maintaining our SaaS platform, we provide ongoing updates and enhancements to the platform services both in terms of the software as well as the underlying hardware and data center infrastructure. These updates and enhancements are provided to our customers at no additional charge as part of the subscription fees paid for the use of our platform. While more traditional products eventually become obsolete and require replacement, we are constantly updating and maintaining our cloud-based services and as such they operate with a continuous product life cycle. Much of this work is designed to both maintain and enhance the customers' experience over time while also lowering our costs to deliver the service. Our SaaS platform is a shared infrastructure that is used by all of our customers. Accordingly, the costs of the platform are spread in a relatively uniform manner across the entire customer base and no specific infrastructure elements are directly attached to any particular customer. As such, in the event that a customer chooses to not renew its subscription, the underlying resources are reallocated either to new customers or to accommodate the expanding needs of our existing customers and, as a result, we do not believe that the loss of any particular customer has a meaningful impact on our gross profit as long as we continue to grow our customer base.

To date, our customers have primarily used our solutions in conjunction with email messaging content. We have developed solutions to address new and evolving messaging solutions such as social media and file sharing applications, but these solutions are relatively nascent. If customers increase their use of these new messaging solutions in the future, we anticipate that our growth in revenue associated with older email messaging solutions may slow over time. Although revenue associated with our social media and file sharing applications has not been material to date, we believe that our ability to provide security, archiving, governance and discovery for these new solutions will be viewed as valuable by our existing customers, enabling us to derive revenue from these new forms of messaging and communication.

While the majority of our current and prospective customers run their email systems on premises, we believe that there is a trend for large and mid-sized enterprises to migrate these systems to the cloud. While our current revenue derived from customers using cloud-based email systems continues to grow as a percentage of our total revenue, many of these cloud-based email solutions offer some form of threat protection and governance services, potentially mitigating the need for customers to buy these capabilities from third parties such as ourselves. We believe that we can continue to provide security, archiving, governance, and discovery solutions that are differentiated from the services offered by cloud-based email providers, and as such our platform will continue to be viewed as valuable to enterprises once they have migrated their email services to the cloud, enabling us to continue to derive revenue from this new trend toward cloud-based email deployment models.

With the majority of our business, we invoice our customers for the entire contract amount at the start of the term and these amounts are recorded as deferred revenue on our balance sheet, with the dollar weighted average duration of these contracts for any given period over the past three years typically ranging from 14 to 20 months. As a result, while our practice of invoicing customers for the entire amount of the contract at the start of the term provides us with a relatively immediate contribution to cash flow, the revenue is recognized ratably over the term of the contract, and hence contributions toward operating income are realized over an extended period. As such, our efforts to improve our profitability require us to invest far less in operating expenses than the cash flow generated by our business might otherwise allow. As we strive to invest in an effort to continue to increase the size and scale of our business, we expect that the level of investment afforded by our growth in revenue should be sufficient to fund the investments needed to drive revenue growth and broaden our product line.

Considering all of these factors, we do not expect to be profitable on a GAAP basis in the near term and in order to achieve profitability we will need to grow revenue at a rate faster than our investments in operating expenses and cost

of revenue.

We intend to grow our revenue through acquiring new customers by investing in our sales and marketing activities. We believe that an increase in new customers in the near term will result in a larger base of renewal customers, which, over time, we expect to be more profitable for us.

41

Sales and marketing is our largest expense and hence a significant contributing factor to our operating losses. We believe that our opportunity to improve our return on investment on sales and marketing costs relies primarily on our ongoing ability to cost-effectively renew our business with existing customers, thereby lowering our overall sales and marketing costs as a percentage of revenue as the mix of revenue derived from this more profitable renewal activity increases over time. Therefore, we anticipate that our initial significant investments in sales and marketing activities will, over time, generate a larger base of more profitable customers. Cost of subscription revenue is also a significant expense for us, and we expect to continue to build on the improvements over the past years, such as in replacing third-party technology with our proprietary technology and improving the utilization of our fixed investments in equipment and infrastructure, in order to provide the opportunity for improved subscription gross margins over time. Although we plan to continue enhancing our solutions, we intend to lower our rate of investment in research and development as a percentage of revenue over time by deriving additional revenue from our existing solutions rather than by adding entirely new categories of solutions. In addition, as personnel costs are one of the primary drivers of the increases in our operating expenses, we plan to reduce our historical rate of headcount growth over time.

Key Metrics

We regularly review a number of metrics, including the following key metrics presented in the table below, to evaluate our business, measure our performance, identify trends in our business, prepare financial projections and make strategic decisions. Many of these key metrics, such as non-GAAP gross margin, billings and free cash flow, are non-GAAP measures. This non-GAAP information is not necessarily comparable to non-GAAP information of other companies. Users of this financial information should consider the types of events and transactions for which adjustments have been made.

	Year Ended December 31,					
	2018		2017		2016	
	(in thousands)					
Total revenue	\$716,994		\$519,681		\$378,337	
Growth	38	%	37	%	43	%
Gross margin percentage	72	%	72	%	71	%
Non-GAAP gross margin	78	%	78	%	76	%
Billings (non-GAAP)	\$875,323		\$638,839		\$463,086	
Growth	37	%	38	%	43	%
Free cash flows (non-GAAP)	\$155,222		\$106,728		\$59,828	

Non-GAAP gross margin

We define non-GAAP gross margin as non-GAAP gross profit divided by GAAP revenue. We define non-GAAP gross profit as GAAP gross profit, adjusted to exclude stock-based compensation expense and the amortization of intangibles associated with acquisitions. We consider this non-GAAP financial measure to be a useful metric for management and investors because it excludes the effect of stock-based compensation expense and the amortization of intangibles associated with acquisitions so that our management and investors can compare our business operating results over multiple periods, and compare our financial results with other companies in its industry, many of which present similar non-GAAP financial measure. However, there are a number of limitations related to the use of non-GAAP gross margin versus gross margin calculated in accordance with GAAP. For example, stock-based compensation has been and will continue to be for the foreseeable future a significant recurring expense in our business. Stock-based compensation is an important part of our employees' compensation and impacts their performance. In addition, the components of the costs that we exclude in our calculation of non-GAAP gross margin may differ from the components that our peer companies exclude when they report their non-GAAP

results. Management compensates for these limitations by providing specific information regarding the GAAP amounts excluded from non-GAAP gross margin and evaluating non-GAAP gross margin together with gross margin calculated in accordance with GAAP.

The following table presents the reconciliation of gross margin to Non-GAAP gross margin for the years ended December 31, 2018, 2017 and 2016:

	Year Ended December 31,					
	2018		2017		2016	
	(in thousands)					
GAAP gross profit	\$515,233		\$376,303		\$269,744	
GAAP gross margin	72	%	72	%	71	%
Plus:						
Stock-based compensation expense	16,299		12,528		8,921	
Amortization of intangible assets	26,971		14,512		9,423	
Non-GAAP gross profit	\$558,503		\$403,343		\$288,088	
Non-GAAP gross margin	78	%	78	%	76	%

Billings

We have included billings, a non-GAAP financial measure, in this report because it is a key measure used by our management and board of directors to manage our business and monitor our near term cash flows. We define billings as revenue recognized plus the change in deferred revenue and customer prepayments less unbilled accounts receivable from the beginning to the end of the period, but excluding additions to deferred revenue from acquisitions. We have provided reconciliation between total revenue, the most directly comparable GAAP financial measure, and billings. Accordingly, we believe that billings provide useful information to investors and others in understanding and evaluating our operating results in the same manner as our management and board of directors.

Our use of billings as a non-GAAP measure has limitations as an analytical tool, and you should not consider it in isolation or as a substitute for revenue or an analysis of our results as reported under GAAP. Some of these limitations are:

- Billings is not a substitute for revenue, as trends in billings are not necessarily directly correlated to trends in revenue;
- Billings is affected by a combination of factors including the timing of renewals, the sales of our solutions to both new and existing customers, the relative duration of contracts sold, and the relative amount of business derived from strategic partners. As each of these elements has unique characteristics in the relationship between billings and revenue, our billings activity is not necessarily closely correlated to revenue; and
- Other companies, including companies in our industry, may not use billings, may calculate billings differently, or may use other financial measures to evaluate their performance—all of which reduce the usefulness of billings as a comparative measure.

Our deferred revenue consists of amounts that have been invoiced but have not been recognized as revenue as of the period end. Customer prepayments represent billed amounts for which the contract can be terminated and the customer has a right of refund. Unbilled accounts receivable represent amounts for which we have recognized revenue, pursuant to our revenue recognition policy, for subscription software already delivered and professional services already performed, but billed in arrears and for which we believe we have an unconditional right to payment.

The following table presents the reconciliation of total revenue to billings for the years ended December 31, 2018, 2017 and 2016:

	Year Ended December 31,		
	2018	2017	2016
	(in thousands)		
Total revenue	\$716,994	\$519,681	\$378,337
Deferred revenue and customer prepayments			
Ending	605,073	431,371	295,996
Beginning	431,371	295,996	210,397
Net change	173,702	135,375	85,599
Unbilled accounts receivable			
Ending	1,276	603	486
Beginning	603	486	836
Net change	(673)	(117)	350
Less: deferred revenue contributed by acquisitions	(14,700)	(16,100)	(1,200)
Billings	\$875,323	\$638,839	\$463,086

Free cash flows

We define free cash flow as net cash provided by operating activities minus capital expenditures. We consider free cash flow to be a liquidity measure that provides useful information to management and investors about the amount of cash generated by the business that, after the acquisition of property and equipment, can be used for strategic opportunities, including investing in our business, making strategic acquisitions, and strengthening the balance sheet. Analysis of free cash flow facilitates management's comparisons of our operating results to competitors' operating results. A limitation of using free cash flow versus the GAAP measure of net cash provided by operating activities as a means for evaluating our company is that free cash flow does not represent the total increase or decrease in the cash balance from operations for the period because it excludes cash used for capital expenditures during the period. Management compensates for this limitation by providing information about our capital expenditures on the face of the cash flow statement and in the "Liquidity and Capital Resources" section below.

	Year Ended December 31,		
	2018	2017	2016
	(in thousands)		
GAAP cash flows provided by operating activities:	\$184,744	\$153,686	\$94,235
Less:			
Purchase of property and equipment	(29,522)	(46,958)	(34,407)
Non-GAAP free cash flows	\$155,222	\$106,728	\$59,828

Components of Our Results of Operations

Revenue

We derive our revenue primarily through the license of various solutions and services on our security-as-a-service platform on a subscription basis, supplemented by the sales of training, professional services and hardware depending upon our customers' requirements.

Subscription. We license our platform and its associated solutions and services on a subscription basis. The fees are charged on a per user, per year basis. Subscriptions are typically one to three years in duration. We invoice our customers upon signing for the entire term of the contract. The invoiced non-cancellable amounts billed in advance are treated as deferred revenue on the balance sheet and are recognized ratably, in accordance with the appropriate revenue recognition guidelines, over the term of the contract. We also derive a portion of our subscription revenue from the license of our solutions to strategic partners. We bill these strategic partners monthly. We expect our subscription revenue will continue to grow and remain above 95% of our total revenue.

Hardware and services. We provide hardware appliances as a convenience to our customers and as such it represents a small part of our business. Our solutions are designed to be implemented, configured and operated without the need for any training or professional services. For those customers that seek to develop deeper expertise in the use of our solutions or would like assistance with complex configurations or the importing of data, we offer various training and professional services. We typically invoice the customer for hardware at the time of shipment. We typically invoice customers for services at the time the order is placed and recognize this revenue as the services are performed. On occasion, customers may retain us for special projects such as archiving import and export services; these types of services are recognized upon completion of the project. We expect the overall proportion of revenue derived from hardware and service offerings to generally remain below 5% of our total revenue.

Cost of Revenue

Our cost of revenues consists of cost of subscription revenue and cost of hardware and services revenue. Personnel costs, which consist of salaries, benefits, bonuses, stock-based compensation, data center costs and hardware costs, are the most significant components of our cost of revenues. We expect personnel costs to continue to increase in absolute dollars as we hire new employees to continue to grow our business.

Cost of Subscription Revenue. Cost of subscription revenue primarily includes personnel costs, consisting of salaries, benefits, bonuses, and stock-based compensation, for employees who provide support services to our customers and operate our data centers. Other costs include fees paid to contractors who supplement our support and data center personnel; expenses related to the use of third-party data centers in both the United States and internationally; depreciation of data center equipment; amortization of licensing fees and royalties paid for the use of third-party technology; amortization of internally developed intangible assets; and the amortization of intangible assets acquired through business combinations. Growth in subscription revenue generally consumes production resources, requiring us to gradually increase our cost of subscription revenue in absolute dollars as we expand our investment in data center equipment, the third-party data center space required to house this equipment, and the personnel needed to manage this higher level of activity.

Cost of Hardware and Services Revenue. Cost of hardware and services revenue includes personnel costs for employees who provide training and professional services to our customers as well as the cost of server hardware shipped to our customers that we procure from third parties and configure with our software solutions.

Operating Expenses

Our operating expenses consist of research and development, sales and marketing, and general and administrative expenses. Personnel costs, which consist of salaries, benefits, bonuses, and stock-based compensation, are the most significant component of our operating expenses. Our headcount has increased from 449 employees as of December 31, 2012 to 2,613 employees as of December 31, 2018. As a result of this growth in headcount, operating expenses have increased significantly over these periods. We expect personnel costs to continue to increase in absolute dollars as we hire new employees to continue to grow our business.

Research and Development. Research and development expenses include personnel costs, consulting services and depreciation. We believe that these investments have played an important role in broadening the capabilities of our platform over the course of our operating history, enhancing the relevance of our solutions in the market in general and helping us to retain our customers over time. We expect to continue to devote substantial resources to research and development in an effort to continuously improve our existing solutions as well as to develop new offerings. We believe that these investments are necessary to maintain and improve our competitive position. However, over the longer term, we intend to monitor these costs so as to decrease this spending as a percentage of total revenue. Our research efforts include both software developed for our internal use on behalf of our customers as well as software elements to be used by our customers in their own facilities. To date, our capitalized costs on software developed for internal use on behalf of our customers were not material. For the software developed for use on our customers' premises, the costs associated with the development work between technological feasibility and the general availability has not been material and as such we have not capitalized any of these development costs to date.

Sales and Marketing. Sales and marketing expenses include personnel costs, sales commissions, and other costs including travel and entertainment, marketing and promotional events, public relations and marketing activities. These costs also include amortization of intangible assets as a result of our past acquisitions. Due to our continued investment in growing our sales and marketing operations, both domestically and internationally, headcount increases were reflected in higher compensation expense consistent with our revenue growth. Our sales personnel are typically not immediately productive, and therefore the increase in sales and marketing expenses we incur when we add new sales representatives is not immediately offset by increased revenue and may not result in increased revenue over the long-term if these new sales people fail to become productive. The timing of our hiring of new sales personnel and the rate at which they generate incremental revenue will affect our future financial performance. We expect that sales and marketing expenses will continue to increase in absolute dollars and be among the most significant components of our operating expenses.

General and Administrative. General and administrative expenses consist of personnel costs, consulting services, audit fees, tax services, legal expenses and other general corporate items. As a result of our operational growth, we expect our general and administrative expenses to increase in absolute dollars in future periods as we continue to expand our operations and hire additional personnel.

Interest Expense

Interest expense consists of interest income earned on our cash, cash equivalents and short-term investments, the interest expense related to our convertible senior notes and our capital lease payments.

Other Income (Expense), Net

Other income (expense), net, consists primarily of the net effect of foreign currency transaction gains and losses.

Benefit from (Provision for) Income Taxes

For most of the prior years, our income tax expense or benefit were primarily related to state and foreign income taxes. As we have incurred operating losses in all periods to date and recorded a full valuation allowance against our deferred tax assets, we had not historically recorded a provision for federal income taxes. However, in the year ended December 31, 2017, we recognized \$0.2 million of deferred tax benefit in the U.S. related to amortization of tax goodwill on business acquisitions and \$12.3 million of deferred tax benefit in the U.S. related to changes in the Company's valuation allowance resulting from the Cloudmark, Inc. and WebLife Balance, Inc. business acquisitions. For the year ended December 31, 2018, we recognized \$14.7 million of deferred tax benefit in the U.S. related to changes in the Company's valuation allowance resulting from the Wombat Security Technologies, Inc. acquisition. Realization of any of our deferred tax assets depends upon future earnings, the timing and amount of which are uncertain. Utilization of our net operating losses and research and development credits may be subject to substantial

annual limitation due to the ownership change limitations provided by the Internal Revenue Code and similar state provisions. Analyses have been conducted to determine whether an ownership change had occurred since inception. The analyses have indicated that although ownership changes have occurred in prior years, the net operating losses and research and development credits would not expire before utilization as a result of the ownership change. In the event we have subsequent changes in ownership, net operating losses and research and development credit carryovers could be limited and may expire unutilized as a result of the subsequent ownership change.

Results of Operations

The following table is a summary of our consolidated statements of operations.

	Year Ended December 31,		
	2018	2017	2016
	(in thousands)		
Revenue:			
Subscription	\$704,400	\$506,355	\$367,494
Hardware and services	12,594	13,326	10,843
Total revenue	716,994	519,681	378,337
Cost of revenue:(1)			
Subscription	180,253	125,832	94,716
Hardware and services	21,508	17,546	13,877
Total cost of revenue	201,761	143,378	108,593
Gross profit	515,233	376,303	269,744
Operating expense:(1)			
Research and development	185,391	129,803	98,506
Sales and marketing	345,368	248,694	189,324
General and administrative	86,185	52,735	52,774
Total operating expense	616,944	431,232	340,604
Operating loss	(101,711)	(54,929)	(70,860)
Interest expense	(14,168)	(25,597)	(23,538)
Other (expense) income, net	(1,102)	774	(1,103)
Loss before income taxes	(116,981)	(79,752)	(95,501)
Benefit from (provision for) income taxes	13,232	9,950	(986)
Net loss	\$(103,749)	\$(69,802)	\$(96,487)

The following table sets forth our consolidated results of operations for the specified periods as a percentage of our total revenue for those periods.

	Year Ended December 31,		
	2018	2017	2016
Revenue:			
Subscription	98 %	97 %	97 %
Hardware and services	2	3	3
Total revenue	100	100	100
Cost of revenue:(1)			
Subscription	25	24	25
Hardware and services	3	4	4
Total cost of revenue	28	28	29
Gross profit	72	72	71
Operating expense:(1)			
Research and development	26	25	26
Sales and marketing	48	47	50

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General and administrative	12	10	14
Total operating expense	86	82	90
Operating loss	(14)	(10)	(19)
Interest expense	(2)	(5)	(6)
Other (expense) income, net	—	—	—
Loss before income taxes	(16)	(15)	(25)
Benefit from (provision for) income taxes	2	2	—
Net loss	(14)%	(13)%	(25)%

(1) Includes stock-based compensation and amortization of intangible assets as follows:

47

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	Year Ended December 31,		
	2018	2017	2016
	(in thousands)		
Stock-based compensation:			
Cost of subscription revenue	\$14,012	\$10,635	\$7,427
Cost of hardware and services revenue	\$2,287	\$1,893	\$1,494
Research and development	\$40,204	\$30,588	\$24,342
Sales and marketing	\$50,320	\$33,962	\$28,607
General and administrative	\$35,885	\$20,382	\$16,826
Amortization of intangible assets:			
Cost of subscription revenue	\$26,971	\$14,512	\$9,423
Research and development	\$45	\$60	\$60
Sales and marketing	\$14,141	\$3,934	\$4,938

Revenue

	Year Ended				Year Ended			
	December 31,		Change		December 31,		Change	
	2018	2017	\$	%	2017	2016	\$	%
	(in thousands)				(in thousands)			
Subscription	\$704,400	\$506,355	\$198,045	39%	\$506,355	\$367,494	\$138,861	38%
Hardware and services	12,594	13,326	(732)	(5)%	13,326	10,843	2,483	23%
Total revenue	\$716,994	\$519,681	\$197,313	38%	\$519,681	\$378,337	\$141,344	37%

Subscription revenue increased \$198.0 million and \$138.9 million, or 39% and 38%, respectively, for 2018 and 2017. These increases were due to a \$153.1 million and \$115.1 million increase in revenue from the United States and, a \$44.9 million and \$23.8 million increase from international customers for 2018 and 2017, respectively.

The increases in subscription revenue for 2018 and 2017 were due to the ongoing demand for our advanced threat and compliance solutions, increase in add-on activity and renewal rate being higher than 90%. Our enterprise customer count, which consists of customers that generate more than \$10,000 in annual recurring revenue, increased from approximately 4,400 at the end of 2017 to approximately 6,100, or 39%, at the end of 2018. The Wombat acquisition added approximately 550 customers that were only using Wombat products at the time of the acquisition on February 28, 2018. Our enterprise customer count increased from approximately 3,600 at the end of 2016 to approximately 4,400, or 22%, at the end of 2017. The revenue recognized from acquired deferred revenue related to the acquisitions we made was \$20.8 million, \$3.2 million and \$2.7 million in 2018, 2017 and 2016, respectively. The change in subscription revenue due to pricing was not significant for either period.

Hardware and services revenue for 2018 decreased \$0.7 million or 5%, as compared to 2017, primarily due to lower professional service revenue. The increase in hardware and services revenue in 2017 as compared to 2016 was \$2.5 million, or 23%, primarily due to an increase in configuration and installation service revenue.

Cost of Revenue

	Year Ended				Year Ended			
	December 31, 2018 (in thousands)	2017	Change		December 31, 2017 (in thousands)	2016	Change	
			\$	%			\$	%
Subscription	\$180,253	\$125,832	\$54,421	43%	\$125,832	\$94,716	\$31,116	33%
Hardware and services	21,508	17,546	3,962	23%	17,546	13,877	3,669	26%
Total cost of revenue	\$201,761	\$143,378	\$58,383	41%	\$143,378	\$108,593	\$34,785	32%

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Cost of subscription revenue increased \$54.4 million, or 43%, in 2018 as compared to 2017, and \$31.1 million, or 33%, in 2017 as compared to 2016. The increases were primarily due to increases in operations-related expense of \$35.4 million and \$21.1 million, respectively, due to increased headcount, depreciation expense as a result of higher capital expenditures to support our growth, and larger amortization of intangible assets expense of developed technology from recent acquisitions. Additionally, support-related expenses increased \$13.3 million and \$8.4 million, respectively, primarily due to higher headcount and consulting costs. Data center costs increased \$5.3 million and \$1.8 million, respectively, primarily due to subscription revenue growth in our cloud-based solutions.

Cost of hardware and services revenue for 2018 and 2017 increased \$4.0 million and \$3.7 million, or 23% and 26%, respectively, as compared to the year before, primarily due to an increase in professional service costs as our headcount increased.

Operating Expenses

	Year Ended				Year Ended			
	December 31,		Change		December 31,		Change	
	2018	2017	\$	%	2017	2016	\$	%
	(in thousands)				(in thousands)			
Research and development	\$185,391	\$129,803	\$55,588	43%	\$129,803	\$98,506	\$31,297	32%
Percent of total revenue	26	% 25	%		25	% 26	%	

Research and development expenses increased \$55.6 million and \$31.3 million, or 43% and 32%, for 2018 and 2017, respectively. The increases were primarily due to increases in personnel-related costs of \$46.1 million and \$25.3 million for 2018 and 2017, respectively, from higher headcount, including those from the integration of the acquisitions in 2018 and 2017. Additionally, corporate expense allocated to research and development increased \$7.9 million and \$5.8 million for 2018 and 2017, respectively, primarily due to higher costs from expanded operations, higher allocated costs from facilities, human resources and IT-related expense as we grew year-over-year. Outside service expenses increased \$1.0 million and travel related expenses increased \$0.4 million in 2018.

	Year Ended				Year Ended			
	December 31,		Change		December 31,		Change	
	2018	2017	\$	%	2017	2016	\$	%
	(in thousands)				(in thousands)			
Sales and marketing	\$345,368	\$248,694	\$96,674	39%	\$248,694	\$189,324	\$59,370	31%
Percent of total revenue	48	% 47	%		47	% 50	%	

Sales and marketing expenses increased \$96.7 million and \$59.4 million, or 39% and 31%, for 2018 and 2017, respectively. The increase in headcount on a worldwide basis and increase in revenue resulted in increased personnel-related and commissions costs of \$65.8 million and \$47.4 million, for 2018 and 2017, respectively. Travel expenses increased \$4.5 million in 2018 and \$3.8 million in 2017. Corporate and facilities expenses allocated to sales and marketing increased \$6.1 million in 2018 and \$4.5 million in 2017 due to costs related to our acquisitions and higher allocated costs as the company expanded. Marketing expenses related to lead generation, trade shows, advertising and other initiatives increased \$8.0 million in 2018 and \$4.1 million in 2017. Amortization expense of

acquired intangible assets increased \$10.2 million in 2018.

	Year Ended				Year Ended							
	December 31, 2018		2017		Change		December 31, 2017		2016		Change	
	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
	(in thousands)				(in thousands)							
General and administrative	\$86,185		\$52,735		\$33,450	63%	\$52,735		\$52,774		\$(39)	(0)%
Percent of total revenue	12	%	10	%			10	%	14	%		

General and administrative expenses increased \$33.5 million, or 63%, in 2018 as compared to 2017. The change in general and administrative expenses in 2017 was not material as compared to 2016. Personnel-related costs increased \$25.6 million and \$9.2 million for 2018 and 2017, respectively, to support our continued growth as a public company and business acquisitions in 2018 and 2017. Corporate and facilities expense increased \$2.1 million and \$1.3 million for 2018 and 2017, respectively, primarily due to an increased in headcount. Outside consulting and audit costs increased \$1.8 million and \$3.5 million for 2018 and 2017, respectively, primarily due to the adoption of new accounting standards, investments in ERP system and other business applications to support the Company's growth. Acquisition related costs increased \$1.8 million in 2018 primarily due to the business acquisitions made. The change in fair value of acquisition-related contingent consideration liability and acquisition-related expenses decreased general and administrative expense by \$0.9 million and \$0.8 million for 2017. Legal expense increased \$1.4 million in 2018; and decreased \$12.9 million in 2017, primarily due to the timing of litigation and settlement costs related to the lawsuit and settlement with Finjan, Inc. On June 3, 2016, we executed a Confidential Patent License, Settlement and Release Agreement with Finjan, Inc.

Interest Expense

	Year Ended		Change		Year Ended		Change	
	December 31, 2018	2017	\$	%	December 31, 2017	2016	\$	%
	(in thousands)				(in thousands)			
Interest expense	\$(14,168)	\$(25,597)	\$11,429	(45)%	\$(25,597)	\$(23,538)	\$(2,059)	9%

Total net interest expense decreased \$11.4 million in 2018, primarily due to decreases in accretion expense and cash interest expense of \$13.4 million and \$3.0 million, respectively, due to conversions of the 1.25% Notes in 2017 and 0.75% Notes in the third quarter of 2018, offset by a \$4.5 million increase in loss on conversion of the Notes (see Note 9 "Convertible Senior Notes" to the Consolidated Financial Statements).

Total net interest expense increased \$2.1 million in 2017, primarily due to a \$2.7 million loss on conversion of the 1.25% Notes in 2017, and a \$0.9 million increase in amortization of debt issuance costs and accretion of debt discount, partially offset by a \$1.4 million increase in interest income from short-term investments and cash balances.

Other Income (Expense), Net

	Year Ended		Change		Year Ended		Change	
	December 31, 2018	2017	\$	%	December 31, 2017	2016	\$	%
	(in thousands)				(in thousands)			
Other income (expense), net	\$(1,102)	\$774	\$(1,876)	(242)%	\$774	\$(1,103)	\$1,877	(170)%

The changes in other income (expense), net for 2018 and 2017 were primarily due to U.S. Dollar translation rate losses or gains on cash and cash equivalents held in foreign currencies, in particular the Euro, the Japanese Yen, the British Pound and the Canadian Dollar.

Benefit From (Provision For) Income Taxes

	Year Ended				Year Ended			
	December 31,		Change		December 31,		Change	
	2018	2017	\$	%	2017	2016	\$	%
	(in thousands)				(in thousands)			
Benefit from (provision								
for) income taxes	\$13,232	\$9,950	\$3,282	33%	\$9,950	\$(986)	\$10,936	1,109%

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Total benefit from income taxes increased \$3.3 million in 2018 as compared to 2017. The increase was primarily due to a \$14.7 million of deferred tax benefit in the U.S. related to changes in the Company's valuation allowance resulting from the business acquired in 2018 as compared to a \$12.3 million benefit from the businesses acquired in 2017 and a \$1.1 million benefit for U.K. research and development credits recorded in 2018. Total benefit from income taxes increased \$10.9 million in 2017 as compared to 2016. The increase was primarily due to a \$12.3 million deferred tax benefit in the U.S. related to changes in the Company's valuation allowance resulting from the businesses acquired in 2017 and a \$2.0 million deferred tax benefit related to the 2017 Tax Cuts and Jobs Act (the "Tax Act"), offset by a \$2.0 million increase in foreign tax expense due to an increase in spending in certain foreign subsidiaries who operate on a cost-plus basis.

Quarterly Results of Operations

The following table sets forth our unaudited quarterly consolidated statements of operations data for each of the eight quarters in the period ended December 31, 2018. We have prepared the quarterly data on a basis consistent with our audited annual financial statements, including, in the opinion of management, all normal recurring adjustments necessary for the fair statement of the financial information contained in these statements. The historical results are not necessarily indicative of future results and should be read in conjunction with our consolidated financial statements and the related notes included elsewhere in this Annual Report on Form 10-K.

	Three Months Ended							
	Dec. 31,	Sept. 30,	June 30,	Mar. 31,	Dec. 31,	Sept. 30,	June 30,	Mar. 31,
	2018	2018	2018	2018	2017	2017	2017	2017
	(in thousands, except per share amounts)							
Consolidated Statements								
of Operations Data:								
Revenue:								
Subscription	\$195,089	\$181,505	\$169,019	\$158,787	\$144,027	\$130,534	\$118,703	\$113,091
Hardware and services	3,390	2,674	2,856	3,674	2,892	4,152	3,738	2,544
Total revenue	198,479	184,179	171,875	162,461	146,919	134,686	122,441	115,635
Cost of revenue:(1)								
Subscription	46,758	45,679	45,618	42,198	35,937	31,211	30,363	28,321
Hardware and services	6,237	5,258	5,154	4,859	4,561	4,800	4,130	4,055
Total cost of revenue	52,995	50,937	50,772	47,057	40,498	36,011	34,493	32,376
Gross profit	145,484	133,242	121,103	115,404	106,421	98,675	87,948	83,259
Operating expense:(1)								
Research and development	48,215	45,917	47,527	43,732	35,414	32,477	32,306	29,606
Sales and marketing	92,554	90,006	84,911	77,897	66,242	66,406	60,126	55,920
General and administrative	25,754	23,877	19,029	17,525	16,512	13,388	12,348	10,487
Total operating expense	166,523	159,800	151,467	139,154	118,168	112,271	104,780	96,013
Operating loss	(21,039)	(26,558)	(30,364)	(23,750)	(11,747)	(13,596)	(16,832)	(12,754)
Interest income (expense)	937	(9,097)	(3,187)	(2,821)	(8,050)	(5,733)	(5,848)	(5,966)
Other (expense) income, net	(387)	(425)	(633)	343	(110)	829	184	(129)
	(20,489)	(36,080)	(34,184)	(26,228)	(19,907)	(18,500)	(22,496)	(18,849)

Loss before income taxes								
(Provision for) benefit from income taxes	(746)	20	(114)	14,072	13,360	(977)	(999)	(1,434)
Net loss	\$(21,235)	\$(36,060)	\$(34,298)	\$(12,156)	\$(6,547)	\$(19,477)	\$(23,495)	\$(20,283)
Net loss per share, basic								
and diluted	\$(0.39)	\$(0.69)	\$(0.67)	\$(0.24)	\$(0.14)	\$(0.44)	\$(0.54)	\$(0.47)
Weighted average shares								
outstanding, basic and diluted	54,805	52,184	50,935	50,504	45,424	44,418	43,890	43,230

(1) Includes stock-based compensation expense and amortization of intangible assets as follows:

51

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	Three Months Ended							
	Dec. 31,	Sept. 30,	June 30,	Mar. 31,	Dec. 31,	Sept. 30,	June 30,	Mar. 31,
	2018	2018	2018	2018	2017	2017	2017	2017
(in thousands)								
Stock-based compensation:								
Cost of subscription revenue	\$3,610	\$3,503	\$3,448	\$3,451	\$2,520	\$2,876	\$2,863	\$2,376
Cost of hardware and								
services revenue	651	474	571	591	492	493	469	439
Research and development	10,505	9,678	9,986	10,035	7,991	7,803	7,744	7,050
Sales and marketing	13,245	13,191	12,382	11,502	8,892	8,943	8,230	7,897
General and administrative	11,732	11,250	7,410	5,493	5,350	5,222	5,198	4,612
Total stock-based compensation								
expenses	\$39,743	\$38,096	\$33,797	\$31,072	\$25,245	\$25,337	\$24,504	\$22,374
Amortization of intangible assets:								
Cost of subscription revenue	\$6,830	\$7,121	\$7,244	\$5,776	\$4,945	\$3,190	\$3,189	\$3,188
Research and development	—	15	15	15	15	15	15	15
Sales and marketing	3,762	3,982	3,982	2,415	1,143	875	949	967
Total amortization of								
intangible assets	\$10,592	\$11,118	\$11,241	\$8,206	\$6,103	\$4,080	\$4,153	\$4,170

The following unaudited table sets forth our consolidated results of operations data as a percentage of total revenue.

	Three Months Ended							
	Dec. 31,	Sept. 30,	June 30,	Mar. 31,	Dec. 31,	Sept. 30,	June 30,	Mar. 31,
	2018	2018	2018	2018	2017	2017	2017	2017
Consolidated Statements of								
Operations Data:								
Revenue:								
Subscription	98 %	99 %	98 %	98 %	98 %	97 %	97 %	98 %
Hardware and services	2	1	2	2	2	3	3	2
Total revenue	100	100	100	100	100	100	100	100
Cost of revenue:								
Subscription	24	25	27	26	25	23	25	24
Hardware and services	3	3	3	3	3	4	3	4
Total cost of revenue	27	28	30	29	28	27	28	28
Gross profit	73	72	70	71	72	73	72	72
Operating expense:								
Research and development	24	25	28	27	24	24	26	26

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Sales and marketing	47	49	49	48	45	49	49	48
General and administrative	13	13	11	11	11	10	10	9
Total operating expense	84	87	88	86	80	83	85	83
Operating loss	(11)	(15)	(18)	(15)	(8)	(10)	(13)	(11)
Interest expense	1	(5)	(2)	(1)	(5)	(4)	(5)	(5)
Other (expense) income, net	—	—	—	—	—	1	—	—
Loss before income taxes	(10)	(20)	(20)	(16)	(13)	(13)	(18)	(16)
Benefit from (provision for) income taxes	(1)	—	—	9	9	(1)	(1)	(1)
Net loss	(11)%	(20)%	(20)%	(7)%	(4)%	(14)%	(19)%	(17)%

52

Liquidity and Capital Resources

As of December 31, 2018, we had \$185.4 million in cash and cash equivalents and \$46.3 million in short-term investments, for a total of \$231.7 million. Also refer to Note 9 “Convertible Senior Notes” to the consolidated financial statements for discussion of the Notes.

We plan to grow our customer base by continuing to emphasize investments in sales and marketing to add new customers, expand our customers’ use of our platform, and maintain high renewal rates. We also expect to incur additional cost of subscription revenue in accordance with the resulting growth in our customer base. We believe that the combination of our ongoing improvements in gross margins, the benefits of lower sales and marketing costs associated with our renewal activity, and the fact that our contracts are structured to bill our customers in advance should enable us to improve our cash flow from operations as we grow. Based on our current level of operations and anticipated growth, both of which are expected to be consistent with recent quarters, we believe that our existing sources of liquidity will be sufficient to fund our operations for at least the next 12 months. Our future capital requirements will depend on many factors, including our rate of revenue growth, the expansion of our sales and marketing activities, and the timing and extent of spending to support product development efforts and expansion into new territories, and the timing of introductions of new features and enhancements to our solutions. To the extent that existing cash and cash equivalents and cash from operations are insufficient to fund our future activities, we may need to raise additional funds through public or private equity or debt financing. We have invested, and plan to continue investing in acquiring complementary businesses, applications and technologies, and may continue to make such investments in the future, any of which could also require us to seek equity or debt financing. Additional funds may not be available on terms favorable to us or at all.

As of December 31, 2018, the amount of cash and cash equivalents held by our foreign subsidiaries was \$22.3 million, including intercompany receivable balances. If these funds were needed for our operations in the United States, we would be required to withhold foreign taxes on the funds repatriated of approximately \$0.5 million. We have not recorded a liability for these taxes, as it is our intention that the majority of these funds are indefinitely reinvested outside the United States and our current plans do not demonstrate a need to repatriate these funds to our United States operations.

Due to negative earnings and profits in our foreign subsidiaries, we have not recorded a provisional tax liability relating to the one-time mandatory transition tax imposed by the Tax Act on our accumulated foreign earnings. As the Tax Act also eliminates U.S. taxes on foreign subsidiary distributions, future earnings in foreign jurisdictions will be available for distribution to the U.S. without incremental U.S. taxes.

Cash Flows

The following table sets forth a summary of our consolidated cash flows for the periods indicated:

	Years Ended		
	December 31, 2018	2017	2016
	(in thousands)		
Net cash provided by operating activities	\$184,744	\$153,686	\$94,235
Net cash used in investing activities	\$(250,664)	\$(190,427)	\$(89,192)
Net cash used in financing activities	\$(33,861)	\$(23,212)	\$(5,238)

Net Cash Flows Provided by Operating Activities

Our net loss and cash flows from operating activities are significantly influenced by our investments in headcount and data center operations to support anticipated growth. Our cash flows are also influenced by cash payments from customers. We invoice customers for the entire contract amount at the start of the term, and as such our cash flow from operations is also affected by the length of a customer contract.

Net cash provided by operating activities was \$184.7 million in 2018 as compared to \$153.7 million in 2017. The increase of \$31.0 million was primarily due to:

- An increase in amortization of intangible assets of \$22.7 million due to acquired businesses, and an increase in depreciation of fixed assets of \$8.8 million due to an increase in capital expenditures;
- An increase in stock-based compensation expense of \$45.2 million due to the increase in headcount and grants made;

53

- An increase in amortization of deferred commissions of \$8.6 million due to an increase in revenue;
- An increase in loss on conversion of convertible notes of \$4.5 million due to their conversion (see Note 9 “Convertible Senior Notes” to the Consolidated Financial Statements);
- An increase in accounts payable and accrued liabilities changes of \$10.0 million and \$2.6 million, respectively, due to the timing of compensation and other payments;
- An increase in deferred revenue change of \$38.9 million due to higher billings;

The increase was offset by a \$33.9 million increase in net loss, \$13.4 million decrease in amortization of debt issuance costs and accretion of debt discount due to the conversion of the convertible notes in 2017 and 2018 (see Note 9 “Convertible Senior Notes” to the Consolidated Financial Statements), an increase in accounts receivable change of \$50.1 million, and an increase in deferred commissions change of \$20.3 million due to higher billings.

Net cash provided by operating activities was \$153.7 million in 2017 as compared to \$94.2 million in 2016. The increase of \$59.5 million was primarily due to:

- A \$26.7 million decrease in net loss;
- An increase in amortization of intangible assets of \$4.1 million due to acquired businesses, and an increase in depreciation of fixed assets of \$6.5 million due to an increase in capital expenditures;
- Stock-based compensation expense increased \$18.8 million due to the increase in headcount and grants made;
- Amortization of deferred commissions increased \$5.8 million due to an increase in revenue;
- Loss on conversion of convertible notes increased \$2.7 million due to their conversion in 2017 (see Note 9 “Convertible Senior Notes” to the Consolidated Financial Statements);
- An increase in accrued liabilities change of \$8.5 million due to the timing of compensation and other payments;
- An increase in deferred revenue change of \$32.0 million due to higher billings;

The increase was offset by a deferred income tax expense change of \$16.1 million primarily related to a \$12.3 million decrease in valuation allowance due to the business acquisitions made in 2018 and \$2.0 million benefit due to the U.S. 2017 Tax Cuts and Job Act, an increase in accounts receivable change of \$13.0 million, an increase in deferred commissions change of \$8.5 million due to higher billings, and a \$5.9 million decrease in accounts payable change due to the timing of the payments.

Net Cash Flows Used in Investing Activities

Our primary investing activities consisted of acquisitions of businesses, capital expenditures in support of expanding our infrastructure and workforce and the purchase and sale of short-term investments. As our business grows, we expect our capital expenditures and our investment activity to continue to increase. We may also target other companies for acquisition.

Net cash used in investing activities was \$250.7 million in 2018 as compared to \$190.4 million in 2017. The increase in cash used of \$60.3 million was due to an increase in business acquisition cost of \$68.4 million, a \$36.5 million decrease in maturities of short-term investments, and a decrease in receipts from escrow account of \$2.7 million, offset by an increase in proceeds from sales of short-term investments of \$11.9 million, a decrease in purchase of short-term investments of \$18.1 million, and decrease in capital expenditures of \$17.4 million.

Net cash used in investing activities was \$190.4 million in 2017 as compared to \$89.2 million in 2016. The increase in cash used of \$101.2 million was due to an increase in business acquisition cost of \$101.2 million, a \$20.8 million decrease in maturities of short-term investments, an increase in capital expenditures of \$12.6 million for infrastructure expansion and daily operations, offset by \$17.9 million decrease in payments for short-term investments, \$9.6 million paid to escrow account due to the Return Path acquisition in 2016, and by an increase in receipts from escrow account of \$5.8 million.

Net Cash Flows Used in Financing Activities

Net cash used in financing activities was \$33.9 million in 2018 as compared to \$23.2 million in 2017. The increase in cash used of \$10.7 million was primarily due to a \$17.9 million increase in withholding taxes paid related to restricted stock unit net share settlement, offset by a \$1.9 million increase in proceeds from common stock issuance related to employee stock plans, and \$5.5 million decrease in contingent consideration payment.

Net cash used in financing activities was \$23.2 million in 2017 as compared to \$5.2 million in 2016. The increase in cash used of \$18.0 million was primarily due to a \$17.2 million increase in withholding taxes paid related to restricted stock unit net share settlement, a \$6.1 million increase in contingent consideration payment, partially offset by a \$3.9 million increase in proceeds from common stock issuance related to employee stock plans, and \$1.4 million paid in 2017 to release an indemnification holdback liability incurred in connection with the Abaca Technology Corporation acquisition in July 2013.

Contractual Obligations and Commitments

The following table summarizes our contractual obligations as of December 31, 2018 (in thousands):

	Payment Due by Period				
	Total (5)	Less Than 1 Year	1-3 Years	3-5 Years	More than 5 years
Operating lease obligations(1)	\$232,347	\$25,313	\$36,690	\$41,190	\$129,154
Purchase obligations(2)	27,458	22,807	4,651	—	—
Total(3)	\$259,805	\$48,120	\$41,341	\$41,190	\$129,154

(1) Consists of contractual obligations under operating leases for office space and data centers.

(2) Consists of minimum purchase commitment of products and services. Obligations under contracts that we can cancel without a significant penalty were not included in the table above.

(3) As we are unable to reasonably predict the timing of settlement of liabilities related to unrecognized tax benefits, net, the table does not include \$4.3 million of such non-current liabilities included in Other long-term liabilities recorded on our consolidated balance sheet as of December 31, 2018.

Off-Balance Sheet Arrangements

During the periods presented, we did not have, nor do we currently have, any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. We are therefore not exposed to any financing, liquidity, market or credit risk that could arise if we had engaged in those types of relationships.

Under the indemnification provisions of our standard customer agreements, we agree to indemnify, defend and hold harmless our customers against, among other things, infringement of any patents, trademarks or copyrights under any country's laws or the misappropriation of any trade secrets arising from the customer's legal use of our solutions. Certain indemnification provisions potentially expose us to losses in excess of the aggregate amount paid to us by the customer under the applicable customer agreement. No material claims have been made against us pursuant to these indemnification provisions to date.

Critical Accounting Policies and Estimates

Our management’s discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with GAAP. GAAP requires us to make certain estimates and judgments that can affect the reported amounts of assets and liabilities, the disclosure of contingencies, and the reported amounts of revenue and expenses. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. If actual results or events differ materially from those contemplated by us in making these estimates, our reported financial condition and results of operations for future periods could be materially affected. See “Risk Factors” for certain matters that may affect our future financial condition or results of operations. An accounting policy is deemed to be critical if it requires an accounting estimate to be made based on assumptions about matters that are uncertain at the time the estimate is made, if different estimates reasonably could have been used, or if the changes in estimate that are reasonably likely to occur could materially impact the financial statements.

Our significant accounting policies, including those considered to be critical accounting policies, are summarized in Note 1 “The Company and Summary of Significant Accounting Policies” to the accompanying consolidated financial statements in this report. The following critical accounting policies reflect significant judgments and estimates used in the preparation of our consolidated financial statements:

- Revenue recognition;
- Deferred commissions;
- Stock-based compensation expense;
- Fair value of assets acquired and liabilities assumed in business combinations;
- Impairment assessment of goodwill, intangible assets and other long-lived assets
- Loss contingencies; and
- Recognition and measurement of current and deferred income taxes.

Revenue Recognition

The Company derives its revenue primarily from: (1) subscription service revenue; (2) subscription software revenue, and (3) hardware and services, which include professional service and training revenue provided to customers related to their use of the platform. Subscription service revenue is derived from a subscription-based enterprise licensing model with contract terms typically ranging from one to three years, and consists of (1) subscription fees from the licensing of the Company’s security-as-a-service platform and its various components, (2) subscription fees for software with support and related future updates where the software updates are critical to the customers’ ability to derive benefit from the software due to the fast changing nature of the technology. These function together as one performance obligation, and (3) subscription fees for the right to access the Company’s customer support services for software with significant standalone functionality and support services for hardware. Subscription software revenue is primarily derived from term-based software that is deployed on the customers’ own servers and has significant standalone functionality, is recognized upon transfer of control to the customer.

Most of the Company’s contracts with customers contain multiple performance obligations. Determining whether products and services are considered distinct performance obligations that should be accounted for separately versus together may require judgment. For these contracts, we account for individual performance obligations separately if they are distinct. The transaction price is allocated to individual performance obligation on a relative standalone selling price basis. The transaction price allocated to subscription services and subscription software that does not have significant standalone functionality is determined by considering factors such as historical pricing practices, and the selling price of hardware and professional services is estimated using a cost plus model. The selling price for support of a functional subscription software license is calculated as a percentage of functional subscription software license value which is derived by analyzing internal pricing practice, customer expectations, and industry practice.

Deferred Commissions

We capitalize sales commissions and associated payroll taxes paid to internal sales personnel, and referral fees paid to independent third-parties, that are incremental to the acquisition of customer contracts. These costs are recorded as deferred commissions on the consolidated balance sheets. We determine whether costs should be deferred based on sales compensation plans, if the commissions are incremental and would not have occurred absent the customer contract. Sales commissions for renewal of a subscription contract are not considered commensurate with the commissions paid for the acquisition of the initial subscription contract given the substantive difference in commission rate between new and renewal contracts. Commissions paid upon the initial acquisition of a contract are amortized over an estimated period of benefit of five years while commissions paid related to renewal contracts are amortized over a contractual renewal period. Amortization is recognized based on the expected future revenue streams under the customer contracts. Amortization of deferred sales commissions is included in sales and marketing expense in the accompanying consolidated statements of operations. We determine the period of benefit for commissions paid for the acquisition of the initial subscription contract by taking into consideration its initial estimated customer life and the technological life of the Company’s software and related significant features.

Stock-Based Compensation Expense

We use the Black-Scholes option valuation model to estimate the fair value of stock options and ESPP shares. This valuation model requires the input of highly subjective assumptions, the most significant of which is our estimates of expected volatility and the expected term of the award.

Starting January 1, 2016, the expected volatility of our common stock is based on the Company's historical volatility. Prior to January 1, 2016, the common stock price volatility was determined based on the historical average volatilities of the common stock of a group of publicly-traded peer companies that operated in a similar industry as the Company did not have sufficient trading history for its common stock.

The expected life of options granted has been determined utilizing the "simplified" method as permitted by the SEC. The risk-free interest rate is based on a daily treasury yield curve rate whose term is consistent with the expected life of the stock options. We have not, historically, paid and, in the future, do not anticipate paying cash dividends on our shares of common stock and therefore, the expected dividend yield is assumed to be zero.

Fair Value of Assets Acquired and Liabilities Assumed in Business Combinations

In each of our acquisitions, we used the purchase method of accounting which requires us to allocate the fair value of the total consideration transferred to tangible and identifiable intangible assets acquired and liabilities assumed based on their estimated fair values on the date of the acquisition, with the difference between the net assets acquired and the total consideration transferred recorded as goodwill. The fair values assigned, defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between willing market participants, are based on significant estimates and assumptions determined by management. These estimates and assumptions are inherently uncertain and subject to refinement, as a result, during the adjustment period, which may be up to one year from the acquisition date, we may record adjustments to the assets acquired or liabilities assumed with any corresponding offset to goodwill. Upon conclusion of the measurement period or final determination of the values of assets acquired or liabilities assumed, whichever comes first, any subsequent adjustments are recorded within our consolidated statements of operations.

We used either the discounted cash flow method, the replacement cost method or the relief from royalty method to assign fair values to acquired identifiable intangible assets. These methods require significant management judgment to forecast future operating results and establish residual growth rates, royalty rates and discount factors. These models are based on reasonable estimates and assumptions given available facts and circumstances, including industry estimates and averages, as of the acquisition dates and are consistent with the plans and estimates that we use to manage our business. If the subsequent actual results and updated projections of the underlying business activity change compared with the estimates and assumptions used to develop these values, we could experience impairment charges. In addition, we have estimated the economic lives of certain acquired assets and these lives are used to calculate depreciation and amortization expense. If our estimates of the economic lives change, depreciation or amortization expenses could be accelerated or slowed.

Accounting for business combinations requires our management to make significant estimates and assumptions, especially at the acquisition date including our estimates for intangible assets, contractual obligations assumed, restructuring liabilities, pre-acquisition contingencies and contingent consideration, where applicable. Although we believe the assumptions and estimates we have made in the past have been reasonable and appropriate, they are based in part on historical experience and information obtained from the management of the acquired companies and are inherently uncertain.

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

future expected cash flows from our revenue streams;
cost to build the acquired technology;
royalty rates;
the acquired company's brand and competitive position, as well as assumptions about the period of time the acquired brand will continue to be used in the combined company's product portfolio; and
discount rates.

57

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

For a given acquisition, we may identify certain pre-acquisition contingencies as of the acquisition date and may extend our review and evaluation of these pre-acquisition contingencies throughout the measurement period in order to obtain sufficient information to assess whether we include these contingencies as a part of the fair value estimates of assets acquired and liabilities assumed and, if so, to determine their estimated amounts.

If we cannot reasonably determine the fair value of a pre-acquisition contingency (non-income tax related) by the end of the measurement period, which is generally the case given the nature of such matters, we will recognize an asset or a liability for such pre-acquisition contingency if: (i) it is probable that an asset existed or a liability had been incurred at the acquisition date and (ii) the amount of the asset or liability can be reasonably estimated. Subsequent to the measurement period, changes in our estimates of such contingencies will affect earnings and could have a material effect on our results of operations and financial position.

In addition, uncertain tax positions and tax related valuation allowances assumed in connection with a business combination are initially estimated as of the acquisition date. We reevaluate these items quarterly based upon facts and circumstances that existed as of the acquisition date with any adjustments to our preliminary estimates being recorded to goodwill if identified within the measurement period. Subsequent to the measurement period or our final determination of the tax allowance's or contingency's estimated value, whichever comes first, changes to these uncertain tax positions and tax related valuation allowances will affect our provision for income taxes in our consolidated statements of operations and could have a material impact on our results of operations and financial position.

Goodwill, Intangible Assets and Other Long-Lived Assets - Impairment Assessments

We review goodwill for impairment annually and whenever events or changes in circumstances indicate its carrying value may not be recoverable. For the purposes of impairment testing, we have determined that we have one reporting unit. We perform the two-step impairment test, whereby we compare the fair value of the reporting unit to its carrying value. If the fair value of the reporting unit exceeds the carrying value of the net assets assigned to that unit, goodwill is not considered impaired and we are not required to perform further testing. If the carrying value of the net assets assigned to the reporting unit exceeds the fair value of the reporting unit, then we must perform the second step of the impairment test in order to determine the implied fair value of the reporting unit's goodwill. If the carrying value of a reporting unit's goodwill exceeds its implied fair value, then we would record impairment loss equal to the difference. No impairment has been noted to date.

We periodically review the carrying amounts of intangible assets and other long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying value of these assets may not be recoverable. We measure the recoverability of these assets by comparing the carrying amount of such assets (or asset group) to the future undiscounted cash flow we expect the assets (or asset group) to generate. If we consider any of these assets to be impaired, the impairment to be recognized equals the amount by which the carrying value of the assets exceeds its fair value. We make judgments about the recoverability of purchased intangible assets whenever events or changes in circumstances indicate that impairment may exist.

Each period we evaluate the estimated remaining useful lives of intangible assets and other long-lived assets to assess whether a revision to the remaining periods of amortization is required. Assumptions and estimates about remaining useful lives of our intangible and other long-lived assets are subjective. They can be affected by a variety of factors, including external factors such as industry and economic trends and internal factors such as changes in our business strategy. Although we believe the historical assumptions and estimates we have made are reasonable and appropriate, different assumptions and estimates could materially impact our reported financial results. We did not recognize any intangible asset impairment charges to date.

Loss contingencies

We evaluate contingent liabilities including threatened or pending litigation in accordance with the authoritative guidance on contingencies. We assess the likelihood of any adverse judgments or outcomes from potential claims or legal proceedings, as well as potential ranges of probable losses, when the outcomes of the claims or proceedings are probable and reasonably estimable. A determination of the amount of accrued liabilities required, if any, for these contingencies is made after the analysis of each separate matter. Because of uncertainties related to these matters, we base our estimates on the information available at the time of our assessment. As additional information becomes available, we reassess the potential liability related to our pending claims and litigation and may revise our estimates. Any revisions in the estimates of potential liabilities could have a material impact on our operating results and financial position.

Income Taxes

We determine our current and deferred tax provisions based on estimates and assumptions that could differ from the actual results reflected in our income tax returns filed during the subsequent year. We record adjustments based on filed returns when we have identified and finalized them, which is generally in the fourth quarters of the subsequent year for U.S. federal and state provisions, respectively. We have placed a full valuation allowance on all net U.S. deferred tax assets because realization of these tax benefits through future taxable income cannot be reasonably assured. We intend to maintain the valuation allowance until sufficient positive evidence exists to support the reversal of the valuation allowance. Any decision to reverse part or all of the valuation allowance would be based on our estimate of future profitability. If our estimate were to be wrong, we could be required to charge potentially significant amounts to income tax expense to establish a new valuation allowance.

Our effective tax rate includes the impact of certain undistributed foreign earnings for which we partially provided taxes because we plan to reinvest majority of such earnings indefinitely outside the United States. We plan foreign earnings remittance amounts based on projected cash flow needs as well as the working capital and long-term investment requirements of our foreign subsidiaries and our domestic operations. Material changes in our estimates of cash, working capital and long-term investment requirements in the various jurisdictions in which we do business could impact our effective tax rate. We are subject to income taxes in the United States and certain foreign countries, and we are subject to corporate income tax audits in some of these jurisdictions. We believe that our tax return positions are fully supported, but tax authorities are likely to challenge certain positions, which may not be fully sustained. However, our income tax expense includes amounts intended to satisfy income tax assessments that result from these challenges. Determining the income tax expense for these potential assessments and recording the related assets and liabilities requires management judgments and estimates. We evaluate our uncertain tax positions in accordance with the guidance for accounting for uncertainty in income taxes. We believe that our liability for uncertain tax positions is adequate. We review our liability for uncertain tax positions quarterly, and we may adjust such liability because of proposed assessments by tax authorities, changes in facts and circumstances, issuance of new regulations or new case law, previously unavailable information obtained during the course of an examination, negotiations between tax authorities of different countries concerning our transfer prices, or the expiration of statutes of limitations.

Recent Accounting Pronouncements

Refer to Note 1 of the notes to our consolidated financial statements in Part II, Item 8 of this Annual Report on Form 10-K for a full description of recent accounting pronouncements.

Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We have operations both within the United States and internationally, and we are exposed to market risks in the ordinary course of our business. These risks primarily include interest rate, foreign exchange and inflation risks, as well as risks relating to changes in the general economic conditions in the countries where we conduct business. To reduce certain of these risks, we monitor the financial condition of our large clients and limit credit exposure by collecting in advance and setting credit limits as we deem appropriate. In addition, our investment strategy has been to invest in financial instruments that are highly liquid and readily convertible into cash. To date, we have not used derivative instruments to mitigate the impact of our market risk exposures. We have also not used, nor do we intend to use, derivatives for trading or speculative purposes.

Interest Rate Risk

We are exposed to market risk related to changes in interest rates. Our investments primarily consist of money market funds, corporate debt securities, commercial papers, U.S. agency and Treasury securities, and certificates of deposit. As of December 31, 2018, we had cash, cash equivalents, and short-term investments of \$231.7 million. The carrying amount of our cash equivalents and short-term investments reasonably approximates fair value, due to the short maturities of these investments. The primary objectives of our investment activities are the preservation of capital, the fulfillment of liquidity needs and the fiduciary control of cash and investments. We do not enter into investments for trading or speculative purposes. Our investments are exposed to market risk due to a fluctuation in interest rates, which may affect our interest income and the fair market value of our investments. Due to the short-term nature of our investment portfolio, we believe only dramatic fluctuations in interest rates would have a material effect on our investments. We do not believe that an immediate 10% increase in interest rates would have a material effect on the fair market value of our portfolio. As such we do not expect our operating results or cash flows to be materially affected by a sudden change in market interest rates.

Foreign Currency Risk

The functional currency for our wholly owned foreign subsidiaries is the U.S. dollar. Accordingly, the subsidiaries remeasure monetary assets and liabilities at period-end exchange rates, while nonmonetary items are remeasured at historical rates. Income and expense accounts are remeasured at the average exchange rates in effect during the year. Remeasurement adjustments are recognized in the consolidated statements of operations as foreign currency transaction gains or losses in the year of occurrence. Aggregate foreign currency transaction gains (losses) included in determining net loss were \$(0.9) million, \$0.6 million and \$(0.9) million for 2018, 2017 and 2016, respectively. Transaction gains and losses are included in other (expense) income, net.

As our international operations grow, our risks associated with fluctuation in currency rates will become greater, and we will continue to reassess our approach to managing this risk. In addition, currency fluctuations or a weakening U.S. dollar can increase the costs of our international expansion. For our operating results and cash flows, we evaluated the effects of a 10% shift in exchange rates between those currencies and the U.S. dollar. We have determined that there would not be a material effect on our results of operations from such a shift. To date, we have not entered into any foreign currency hedging contracts, since exchange rate fluctuations have not had a material impact on our operating results and cash flows. Based on our current international structure, we do not plan on engaging in hedging activities in the near future.

Inflation Risk

We do not believe that inflation has had a material effect on our business, financial condition or results of operations. Nonetheless, if our costs were to become subject to significant inflationary pressures, we may not be able to fully offset such higher costs through price increases. Our inability or failure to do so could harm our business, financial condition and results of operations.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The information in response to this item is included in our consolidated financial statements, together with the report thereon of PricewaterhouseCoopers LLP, appearing in Item 15 of this Annual Report on Form 10-K, and in Item 7 under the heading Management's Discussion and Analysis of Financial Condition and Results of Operations.

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

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Regulations under the Securities Exchange Act of 1934, or the Exchange Act, require public companies, including us, to maintain "disclosure controls and procedures," which are defined in Rule 13a-15(e) and Rule 15d-15(e) to mean a company's controls and other procedures that are designed to ensure that information required to be disclosed in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in our reports that we file or submit under the Exchange Act is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosures. Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of the Company's disclosure controls and procedures as of December 31, 2018. Based on their evaluation, as of December 31, 2018, our Chief Executive Officer and Chief Financial Officer have concluded that the Company's disclosure controls and procedures were effective.

Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f) and Rule 15d-15(f). Our management, including our Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on its evaluation under the framework in Internal Control - Integrated Framework (2013), our management concluded that our internal control over financial reporting was effective as of December 31, 2018.

The effectiveness of our internal control over financial reporting as of December 31, 2018, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears in Item 15(a) of this Annual Report on Form 10-K.

Changes in Internal Control

There have been no changes in our internal control over financial reporting during the quarter ended December 31, 2018 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Inherent Limitations on Effectiveness of Controls

Management does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all error and fraud. Any control system, no matter how well designed and operated, is

based upon certain assumptions and can provide only reasonable, not absolute, assurance that its objectives will be met. Further, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the Company have been detected.

ITEM 9B. OTHER INFORMATION

None.

61

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this item will be set forth in the definitive Proxy Statement for our 2018 Annual Meeting of Stockholders (the "Proxy Statement") and is incorporated into this report by reference.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this item will be set forth in the Proxy Statement and is incorporated into this report by reference.

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

The information required by this item will be set forth in the Proxy Statement and is incorporated into this report by reference.

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

The information required by this item will be set forth in the Proxy Statement and is incorporated into this report by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this item will be set forth in the Proxy Statement and is incorporated into this report by reference.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a)

(1) Financial Statements

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

	Page
<u>Report of Independent Registered Public Accounting Firm</u>	64
<u>Consolidated Balance Sheets</u>	66
<u>Consolidated Statements of Operations</u>	67
<u>Consolidated Statements of Comprehensive Loss</u>	68
<u>Consolidated Statements of Stockholders' Equity</u>	69
<u>Consolidated Statements of Cash Flows</u>	70
<u>Notes to Consolidated Financial Statements</u>	72

(2) Financial Statement Schedules

Financial statement schedules have been omitted because they are not required, not applicable, not present in amounts sufficient to require submission of the schedule, or the required information is shown in the Consolidated Financial Statements or Notes thereto.

(3) Exhibits

The information required by this Item is set forth in the Exhibits Index that precedes the signature page of this Annual Report on Form 10-K.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Proofpoint, Inc. and its subsidiaries (the “Company”) as of December 31, 2018, and 2017, and the related consolidated statements of operations, comprehensive loss, stockholders’ equity and cash flows for each of the three years in the period ended December 31, 2018, including the related notes (collectively referred to as the “consolidated financial statements”). We also have audited the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

Change in Accounting Principle

As discussed in Note 1 to the consolidated financial statements, the Company changed the manner in which it accounts for revenues from contracts with customer in 2018.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Annual Report on Internal Control over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on the Company’s consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated

financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

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

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

/s/ PricewaterhouseCoopers LLP

San Jose, California
February 21, 2019

We have served as the Company's auditor since 2008, which includes periods before the Company became subject to SEC reporting requirements.

Proofpoint, Inc.

Consolidated Balance Sheets

(in thousands, except per share amounts)

	At December 31,	
	2018	2017
Assets		
Current assets:		
Cash and cash equivalents	\$ 185,392	\$ 286,072
Short-term investments	46,307	45,526
Accounts receivable, net	199,194	107,696
Inventory	481	730
Deferred product costs	1,800	1,541
Deferred commissions	37,391	26,249
Prepaid expenses and other current assets	16,872	18,669
Total current assets	487,437	486,483
Property and equipment, net	70,627	73,617
Long-term deferred product costs	303	259
Goodwill	460,425	297,704
Intangible assets, net	136,645	95,602
Long-term deferred commissions	69,989	51,954
Other assets	7,592	12,813
Total assets	\$ 1,233,018	\$ 1,018,432
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 20,237	\$ 12,271
Accrued liabilities	90,719	65,503
Capital lease obligations	—	34
Deferred rent	829	586
Deferred revenue	492,742	364,521
Total current liabilities	604,527	442,915
Convertible senior notes	—	197,858
Long-term capital lease obligations	—	55
Long-term deferred rent	3,757	4,102
Other long-term liabilities	6,812	11,069
Long-term deferred revenue	105,388	63,318
Total liabilities	720,484	719,317
Commitments and contingencies (Note 8)		
Stockholders' equity:		
Convertible preferred stock, \$0.0001 par value; 5,000 shares authorized;		
no shares issued and outstanding as of December 31, 2018 and 2017	—	—
Common stock, \$0.0001 par value; 200,000 shares authorized; 55,149 and		
50,325 shares issued and outstanding at December 31, 2018 and		
December 31, 2017, respectively	6	5

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Additional paid-in capital	1,107,953	787,572
Accumulated other comprehensive loss	(7)	(9)
Accumulated deficit	(595,418)	(488,453)
Total stockholders' equity	512,534	299,115
Total liabilities and stockholders' equity	\$1,233,018	\$1,018,432

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

Proofpoint, Inc.

Consolidated Statements of Operations

(in thousands, except per share amounts)

	Year Ended December 31,		
	2018	2017	2016
Revenue:			
Subscription	\$704,400	\$506,355	\$367,494
Hardware and services	12,594	13,326	10,843
Total revenue	716,994	519,681	378,337
Cost of revenue:(1)(2)			
Subscription	180,253	125,832	94,716
Hardware and services	21,508	17,546	13,877
Total cost of revenue	201,761	143,378	108,593
Gross profit	515,233	376,303	269,744
Operating expense:(1)(2)			
Research and development	185,391	129,803	98,506
Sales and marketing	345,368	248,694	189,324
General and administrative	86,185	52,735	52,774
Total operating expense	616,944	431,232	340,604
Operating loss	(101,711)	(54,929)	(70,860)
Interest expense	(14,168)	(25,597)	(23,538)
Other (expense) income, net	(1,102)	774	(1,103)
Loss before income taxes	(116,981)	(79,752)	(95,501)
Benefit from (provision for) income taxes	13,232	9,950	(986)
Net loss	\$(103,749)	\$(69,802)	\$(96,487)
Net loss per share, basic and diluted	\$(1.99)	\$(1.58)	\$(2.31)
Weighted average shares outstanding, basic and diluted	52,111	44,258	41,859

(1) Includes stock-based compensation expense as follows:

Cost of subscription revenue	\$14,012	\$10,635	\$7,427
Cost of hardware and services revenue	\$2,287	\$1,893	\$1,494
Research and development	\$40,204	\$30,588	\$24,342
Sales and marketing	\$50,320	\$33,962	\$28,607
General and administrative	\$35,885	\$20,382	\$16,826

(2) Includes intangible amortization expense as follows:

Cost of subscription revenue	\$26,971	\$14,512	\$9,423
Research and development	\$45	\$60	\$60
Sales and marketing	\$14,141	\$3,934	\$4,938

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

Proofpoint, Inc.

Consolidated Statements of Comprehensive Loss

(In thousands)

	Year Ended December 31,		
	2018	2017	2016
Net loss	\$(103,749)	\$(69,802)	\$(96,487)
Other comprehensive income (loss), net of tax:			
Unrealized gain (loss) on investments, net	2	(2)	16
Comprehensive loss	\$(103,747)	\$(69,804)	\$(96,471)

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

68

Proofpoint, Inc.

Consolidated Statements of Stockholders' Equity

(in thousands)

	Accumulated					Total
	Common Stock Shares	Common Stock Amount	Additional Paid-In Capital	Other Comprehensive Income (Loss)	Accumulated Deficit	
Balances at December 31, 2015	40,840	\$ 4	\$441,104	\$ (23)	\$ (357,900)	\$ 83,185
Cumulative effect of adjustment						
from adoption of ASC 606	—	—	—	—	36,735	36,735
Net loss	—	—	—	—	(96,487)	(96,487)
Unrealized gain on short-term						
investments	—	—	—	16	—	16
Stock-based compensation expense	—	—	70,560	—	—	70,560
Acquisition of FireLayers, Ltd.						
(Note 3)	111	—	176	—	—	176
Common stock issued	2,474	—	27,799	—	—	27,799
Tax withholding upon vesting of						
restricted stock awards	(410)	—	(25,605)	—	—	(25,605)
Balances at December 31, 2016	43,015	4	514,034	(7)	(417,652)	96,379
Cumulative effect adjustment from						
adoption of new accounting						
pronouncement	—	—	999	—	(999)	—
Net loss	—	—	—	—	(69,802)	(69,802)
Unrealized loss on short-term						
investments	—	—	—	(2)	—	(2)
Conversion of convertible senior						
notes to common stock (Note 9)	5,159	1	193,153	—	—	193,154
Stock-based compensation expense	—	—	88,449	—	—	88,449
Acquisition of businesses (Note 3)	—	—	424	—	—	424
Common stock issued	2,672	—	34,024	—	—	34,024
Tax withholding upon vesting of						
restricted stock awards	(521)	—	(43,511)	—	—	(43,511)
Balances at December 31, 2017	50,325	5	787,572	(9)	(488,453)	299,115
Cumulative effect adjustment from	—	—	—	—	(3,216)	(3,216)

adoption of new accounting pronouncement (Note 1)						
Net loss	—	—	—	—	(103,749)	(103,749)
Unrealized gain on short-term investments	—	—	—	2	—	2
Conversion of convertible senior notes to common stock (Note 9)	2,928	1	213,305	—	—	213,306
Stock-based compensation expense	—	—	131,178	—	—	131,178
Common stock issued	2,463	—	36,449	—	—	36,449
Tax withholding upon vesting of restricted stock awards	(567)	—	(60,551)	—	—	(60,551)
Balances at December 31, 2018	55,149	\$ 6	\$1,107,953	\$ (7) \$ (595,418) \$ 512,534

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

Proofpoint, Inc.

Consolidated Statements of Cash Flows

(in thousands)

	Year Ended December 31,		
	2018	2017	2016
Cash flows from operating activities			
Net loss	\$(103,749)	\$(69,802)	\$(96,487)
Adjustments to reconcile net loss to net cash provided by operating activities:			
Depreciation and amortization	73,553	42,098	31,552
Stock-based compensation	142,708	97,460	78,696
Change in fair value of contingent consideration	(79)	(1,533)	(669)
Amortization of debt issuance costs and accretion of debt discount	8,383	21,789	20,842
Amortization of deferred commissions	37,076	28,476	22,704
Loss on conversion of convertible notes	7,207	2,696	—
Deferred income taxes	(15,258)	(15,953)	119
Other	1,469	(348)	1,170
Changes in assets and liabilities, net of effect of acquisitions:			
Accounts receivable	(81,890)	(31,744)	(18,721)
Inventory	249	(132)	(113)
Deferred product costs	(302)	338	402
Deferred commissions	(66,254)	(45,910)	(37,446)
Prepaid expenses	(1,905)	(1,663)	(2,660)
Other current assets	2,155	(139)	(1,472)
Long-term assets	311	(3,429)	959
Accounts payable	8,396	(1,648)	4,271
Accrued liabilities	17,184	14,539	6,044
Deferred rent	(101)	1,867	292
Deferred revenue	155,591	116,724	84,752
Net cash provided by operating activities	184,744	153,686	94,235
Cash flows from investing activities			
Proceeds from maturities of short-term investments	66,080	102,556	123,405
Proceeds from sales of short-term investments	11,931	—	—
Purchase of short-term investments	(78,688)	(96,741)	(114,686)
Purchase of property and equipment	(29,522)	(46,958)	(34,407)
Payments to escrow account	—	—	(9,645)
Receipts from escrow account	3,321	6,066	260
Acquisitions of business, net of cash and restricted cash acquired	(223,786)	(155,350)	(54,119)
Net cash used in investing activities	(250,664)	(190,427)	(89,192)
Cash flows from financing activities			
Proceeds from issuance of common stock	27,579	25,725	21,779
Withholding taxes related to restricted stock net share settlement	(60,706)	(42,823)	(25,588)
Repayments of equipment loans and capital lease obligations	(37)	(34)	(32)
Repayment of convertible notes	(142)	(14)	—
Holdback payments for prior acquisitions	—	—	(1,397)
Contingent consideration payments	(555)	(6,066)	—
Net cash used in financing activities	(33,861)	(23,212)	(5,238)

Effect of exchange rate changes on cash, cash equivalents

and restricted cash	(727)	1,076	(545)
Net decrease in cash, cash equivalents and restricted cash	(100,508)	(58,877)	(740)
Cash, cash equivalents, and restricted cash			
Beginning of period	286,660	345,537	346,277
End of period	\$186,152	\$286,660	\$345,537
Supplemental disclosures of cash flow information			
Cash paid for interest	\$1,249	\$4,236	\$4,250
Cash paid for taxes	\$120	\$5,311	\$893
Supplemental disclosure of noncash investing and financing activities			
Unpaid purchases of property and equipment and asset retirement obligations	\$2,706	\$3,349	\$6,035
Liability awards converted to equity	\$8,870	\$8,307	\$6,059
Convertible senior notes converted to equity	\$213,306	\$193,153	\$—

	December 31, 2018	December 31, 2017	December 31, 2016
Reconciliation of cash, cash equivalents and restricted cash			
as shown in the consolidated statement of cash flows			
Cash and cash equivalents	\$ 185,392	\$ 286,072	\$ 345,426
Restricted cash included in prepaid expenses and other			
current assets	283	315	79
Restricted cash included in other non-current assets	477	273	32
Total cash, cash equivalents and restricted cash	\$ 186,152	\$ 286,660	\$ 345,537

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

Proofpoint, Inc.

Notes to Consolidated Financial Statements

(dollars and share amounts in thousands, except per share amounts)

1. The Company and Summary of Significant Accounting Policies

The Company

Proofpoint, Inc. (the “Company”) was incorporated in Delaware in June 2002 and is headquartered in California.

Proofpoint, Inc. is a leading security-as-a-service provider that enables large and mid-sized organizations worldwide to defend, protect, archive and govern their most sensitive data. The Company’s security-and compliance platform is comprised of an integrated suite of threat protection, information protection, and brand protection solutions, including email protection, advanced threat protection, email authentication, data loss prevention, SaaS application protection, response orchestration and automation, digital risk, web browser isolation, email encryption, archiving, eDiscovery, supervision, secure communication, phishing simulation and security awareness computer-based training.

Basis of Presentation and Consolidation

The accompanying consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles (“GAAP”). The consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. All intercompany transactions and balances have been eliminated in consolidation. Certain prior period amounts have been adjusted due to the adoption of Accounting Standards Update (“ASU”) No. 2014-09, Revenue from Contracts with Customers: Topic 606 (“ASC 606”). Refer to Note 2 “Revenue, Deferred Revenue and Deferred Contract Costs” for more information.

During the reporting periods, the Company completed a number of acquisitions which are more fully described in Note 3 “Acquisitions”. The consolidated financial statements include the results of operations from these business combinations from their date of acquisition.

Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of expenses during the reporting period. Actual results could differ materially from those estimates. Significant items subject to such estimates and assumptions include those related to revenue recognition, deferred commissions, stock-based compensation expense, fair value of assets acquired and liabilities assumed in business combinations, impairment assessments of goodwill, intangible assets and other long-lived assets, loss contingencies, and income taxes.

Foreign Currency Remeasurement and Transactions

The functional currency of the Company’s wholly-owned foreign subsidiaries is the U.S. dollar. Accordingly, the subsidiaries remeasure monetary assets and liabilities at period-end exchange rates, while nonmonetary items are remeasured at historical rates. Income and expense accounts are remeasured at the average exchange rates in effect during the year. Remeasurement adjustments are recognized in the consolidated statements of operations as transaction gains or losses within other income (expense), net, in the period of occurrence. Aggregate transaction gains (losses) included in determining net loss were \$(943), \$574 and \$(852) for the years ended December 31, 2018, 2017 and 2016, respectively.

Cash and Cash Equivalents

The Company considers currency on hand, demand deposits, time deposits, money market funds and all highly liquid investments with an original maturity of three months or less at the date of purchase to be cash and cash equivalents. Cash and cash equivalents are held in various financial institutions in the United States and internationally.

72

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Investments

The Company classifies all its investments as available-for-sale at the time of purchase since it is management's intent that these investments be available for current operations, and as such, includes these investments as short-term investments on its balance sheets. These investments consist of money market funds, corporate debt securities, commercial papers, U.S. agency and Treasury securities, and certificates of deposit with original maturities longer than three months. Short-term investments classified as available-for-sale are recorded at fair value with the related unrealized gains and losses included in accumulated other comprehensive income (loss), a component of stockholders' equity. Realized gains and losses are recorded in the consolidated statements of operations and comprehensive loss based on specific identification.

Inventories

Inventories are stated at lower of cost or net realizable value, with costs computed on a first-in, first-out basis. The Company periodically reviews its inventories for excess and obsolete items and adjusts carrying costs to estimated net realizable values when they are determined to be less than cost. Inventories held at December 31, 2018 and December 31, 2017 consist primarily of finished goods.

Revenue Recognition

Effective January 1, 2018, the Company adopted ASC 606 using full retrospective method. Refer to Note 2 for a detailed discussion of accounting policies related to revenue recognition, including deferred revenue, deferred commissions and deferred product costs.

Property and Equipment

Property and equipment are stated at cost. Depreciation is computed using the straight-line method over the estimated useful life of the related asset. Amortization of leasehold improvements is computed using the straight-line method over the shorter of the lease term or the estimated useful life of the asset or improvement. Cost of maintenance and repairs that do not improve or extend the lives of the respective assets are expensed as incurred.

Impairment of Intangible Assets and Other Long-Lived Assets

The Company evaluates long-lived assets, including property, equipment and definitive-lived intangible assets, for impairment whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable. Recoverability of these assets is measured by comparison of the carrying amount of such assets (or asset group) to the future undiscounted cash flows the assets (or asset group) is expected to generate. If the assets are considered to be impaired, the amount of any impairment is measured as the difference between the carrying value and the fair value of the impaired assets. The Company also evaluates the estimated remaining useful lives of intangible assets and other long-lived assets to assess whether a revision to the remaining periods of amortization is required. No assets were determined to be impaired as of December 31, 2018.

Software Development Costs

Internally developed software includes security software developed to meet the Company's internal needs to provide cloud-based subscription services to its end-customers and business software that the Company customizes to meet its operating needs. These capitalized costs consist of internal compensation related costs and external direct costs incurred during the application development stage. The costs capitalized were not material in the years ended December 31, 2018, 2017 and 2016.

The costs to develop software that is marketed externally have not been capitalized as the current software development process is essentially completed concurrently with the establishment of technological feasibility. As such, all related software development costs are expensed as incurred and included in research and development expense in the consolidated statements of operations.

Internally and externally developed software is amortized over the software's estimated useful life of three to five years.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Advertising and Promotion Costs

Expenses related to advertising and promotion of solutions is charged to sales and marketing expense as incurred. The Company did not incur any material advertising and promotion expenses during the years ended December 31, 2018, 2017 and 2016.

Goodwill and Intangible Assets

Goodwill represents the excess of the purchase price of the acquired enterprise over the fair value of identifiable assets acquired and liabilities assumed. The Company performs an annual goodwill impairment test during the fourth quarter of a calendar year and more frequently if an event or circumstances indicates that impairment may have occurred. For the purposes of impairment testing, the Company has determined that it has one operating segment and one reporting unit. The Company performs a two-step impairment test of goodwill whereby the fair value of the reporting unit is compared to its carrying value. If the fair value of the reporting unit exceeds the carrying value of the net assets assigned to that unit, goodwill is not considered impaired and further testing is not required. If the carrying value of the net assets assigned to the reporting unit exceeds the fair value of the reporting unit, then the Company must perform the second step of the impairment test in order to determine the implied fair value of the reporting unit's goodwill. If the carrying value of a reporting unit's goodwill exceeds its implied fair value, then impairment loss equal to the difference is recorded. The identification and measurement of goodwill impairment involves the estimation of the fair value of the Company. The estimate of fair value of the Company, based on the best information available as of the date of the assessment, is subjective and requires judgment, including management assumptions about expected future revenue forecasts and discount rates, changes in the overall economy, trends in the stock price and other factors. No impairment was identified by the Company as of December 31, 2018.

Intangible assets consist of developed technology, customer relationships, non-compete arrangements, trademarks and patents, and order backlog. The values assigned to intangibles are based on estimates and judgments regarding expectations for success and life cycle of solutions and technologies acquired.

Intangible assets are amortized on a straight-line basis over their estimated lives, which approximate the pattern in which the economic benefits of the intangible assets are consumed, as follows (in years):

	Low	High
Patents	4	5
Developed technology	3	7
Customer relationships	2	8
Order backlog	1	3
Tradenames and trademarks	1	5

Warranty

The Company provides limited warranties on all sales and provides for the estimated cost of the warranties at the date of sale, to the extent not already provided by its own vendors. Warranty costs and the accrued warranty liabilities were not material for all periods presented.

Income Taxes

The Company accounts for income taxes in accordance with authoritative guidance, which requires use of the asset and liability method. Under this method, deferred income tax assets and liabilities are determined based on the difference between the consolidated financial statements carrying amounts and the tax basis of assets and liabilities and are measured using the enacted tax rates expected to apply to taxable income in the years in which the differences are expected to be reversed.

The Company records net deferred tax assets to the extent the Company believes these assets will more likely than not be realized. In making such determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax planning strategies and recent financial operations.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The Company recognizes interest and penalties related to uncertain tax positions within the income tax expense line in the consolidated statements of operations. Accrued interest and penalties are included within the related tax liability line on the consolidated balance sheets.

Research and Development

Research and development expense consists primarily of personnel costs, consulting services, allocated facilities costs and depreciation. Research and development costs are expensed as incurred.

Employee Benefit Plans

The Company's tax-deferred savings plan is qualified under Section 401(k) of the United States Internal Revenue Code. Employees may make voluntary, tax-deferred contributions to the 401(k) Plan up to the statutorily prescribed annual limit. The Company makes discretionary matching contributions to the 401(k) Plan on behalf of employees up to the limit determined by the Board of Directors. The Company contributed \$1,563 to the 401(k) Plan in 2018. There were no contributions made by the Company in 2017 and 2016.

Stock-Based Compensation

The Company issues stock-based compensation awards to employees and directors in the form of stock options, restricted stock units ("RSUs"), performance stock units ("PSUs"), employee stock purchase plan ("ESPP") and stock bonus and other liability awards (collectively, "awards").

The Company measures and recognizes compensation expense for all stock-based awards based on the awards' fair value. Stock-based compensation for RSUs and PSUs is measured based on the value of the Company's common stock on the grant date. Stock-based compensation for employee stock options and ESPP awards are measured on the date of grant using a Black-Scholes option pricing model.

Stock bonus and other liability awards are accounted for as liability-classified awards, because the obligations are based predominantly on fixed monetary amounts that are generally known at the inception of the obligation, to be settled with a variable number of shares of the Company's common stock.

Awards vest either on a graded schedule or in a lump sum. The Company determines the fair value of each award as a single award and recognizes the expense on a straight-line basis over the service period of the award, which is generally the vesting period. The exercise price of stock options granted is equal to the fair value of the Company's common stock on the date of grant. Stock options expire ten years from the date of grant.

Comprehensive Income (Loss)

Comprehensive income (loss) includes all changes in equity that are not the result of transactions with stockholders. The Company's comprehensive income (loss) consists of its net loss and changes in unrealized gains (losses) on its available-for-sale investments.

Loss Contingencies

The Company may be involved in various lawsuits, claims and proceedings that arise in the ordinary course of business. The Company records a provision for a liability when it believes that it is both probable that a liability has been incurred and the amount can be reasonably estimated. Significant judgment is required to determine both probability and the estimated amount. The Company reviews these provisions at least quarterly and adjusts these provisions to reflect the impact of negotiations, settlements, rulings, and updated information.

Accounting Pronouncements Adopted in 2018

In May 2014, the Financial Accounting Standards Board (“FASB”) issued ASC 606 to supersede nearly all existing revenue recognition guidance under U.S. GAAP. The standard contains a comprehensive new revenue recognition model that requires revenue to be recognized in a manner to depict the transfer of services or products to a customer at an amount that reflects the consideration expected to be received in exchange for those services or products. The FASB has issued several amendments to the standard, including clarifications on disclosure of prior-period and remaining performance obligations. The Company adopted ASC 606 effective January 1, 2018 using the full retrospective transition method. Refer to Note 2 “Revenue, Deferred Revenue and Deferred Contract Costs” for more information.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

In October 2016, the FASB issued ASU No. 2016-16, Income Taxes: Intra-Entity Transfers of Assets Other Than Inventory (“ASU 2016-16”). ASU 2016-16 eliminates the requirement to defer the recognition of current and deferred income taxes for intra-entity asset transfer until the asset has been sold to an outside party. Therefore, an entity should recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. ASU 2016-16 was adopted on a modified retrospective basis starting January 1, 2018. As a result of the adoption, the Company’s long-term assets decreased and accumulated deficit increased by \$3,216 as of January 1, 2018, the date of adoption.

In August 2016, the FASB issued ASU No. 2016-15, Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments (“ASU 2016-15”). ASU 2016-15 clarifies how certain cash receipts and payments should be classified in the statement of cash flows. The Company adopted ASU 2016-15 on January 1, 2018 with no impact on its consolidated financial statements.

Recent Accounting Pronouncements Not Yet Effective

In August 2018, the FASB issued ASU No. 2018-15, Customer’s Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract (“ASU 2018-15”). ASU 2018-15 aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The update to the standard is effective for interim and annual periods beginning after December 15, 2019, with early adoption permitted. Entities can choose to adopt the ASU 2018-15 prospectively or retrospectively. The Company is currently assessing the impact ASU 2018-15 will have on its consolidated financial statements.

In January 2017, the FASB issued ASU No. 2017-04, Intangibles - Goodwill and Other (Topic 350): Simplifying the Accounting for Goodwill Impairment (“ASU 2017-04”). ASU 2017-04 removes the requirement to perform a hypothetical purchase price allocation to measure goodwill impairment. A goodwill impairment charge will be the amount by which a reporting unit’s carrying value exceeds its fair value, not to exceed the carrying amount of goodwill. The update to the standard is effective for interim and annual periods beginning after December 15, 2019, with early adoption permitted, and should be applied prospectively. The Company does not expect ASU 2017-04 to have a material impact on its consolidated financial statements.

In June 2016, the FASB issued ASU No. 2016-13, Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments (“ASU 2016-13”). ASU 2016-13 changes the impairment model for most financial assets, and will require the use of an expected loss model in place of the currently used incurred loss method. Under this model, entities will be required to estimate the lifetime expected credit loss on such instruments and record an allowance to offset the amortized cost basis of the financial asset, resulting in a net presentation of the amount expected to be collected on the financial asset. The update to the standard is effective for interim and annual periods beginning after December 15, 2019. The Company is currently evaluating the impact of the adoption of ASU 2016-13 on its consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, Leases (Topic 842) (“ASU 2016-02”), which requires lessees to put most leases on their balance sheets but recognize the expenses on their statements of operations in a manner similar to current practice. ASU 2016-02 states that a lessee would recognize a lease liability for the obligation to

make lease payments and a right-of-use asset (“ROU”) for the right to use the underlying asset for the lease term. The Company will adopt the new standard as of January 1, 2019 and will recognize a cumulative-effect adjustment to the opening balance of accumulated deficit as of the adoption date. The Company will elect the optional transition approach to not apply ASU 2016-02 in the comparative periods presented and the package of practical expedients. The Company will also elect the practical expedient to not account for lease and non-lease components separately for office space, data center and equipment operating leases. The Company expects adoption of ASU 2016-02 will result in the recognition of lease liabilities and ROU assets from \$55,000 to \$70,000, with the most significant impact related to the Company’s office space and data center operating leases. The Company does not expect the adoption of ASU 2016-02 to have a material impact to the consolidated statements of operations or to have any impact on its cash flows from operating, investing or financing activities.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

2. Revenue, Deferred Revenue and Deferred Contract Costs

Effective January 1, 2018, the Company adopted ASC 606 using the full retrospective method. Under this method, the Company is presenting the consolidated financial statements as of December 31, 2017, and for the years ended December 31, 2017 and 2016, as if ASC 606 had been effective for those periods. The most significant impact of the standard related to i) the timing of revenue recognition for contracts related to certain on-premise offerings, in which the Company granted customers the right to deploy its subscription software on the customers' own servers. For these contracts, the Company is required to recognize as revenue a significant portion of the contract price upon delivery of the software compared to the previous practice of recognizing the entire contract price ratably over a subscription period; and ii) the timing of revenue recognition in instances when all revenue recognition criteria were not met until after the start date of the subscription. Previously these amounts were recognized prospectively over the remaining contract term, while under ASC 606, the Company is required to recognize revenue on a cumulative catch-up basis for amounts earned up to the time all revenue recognition criteria have been met. In addition, iii) certain contract acquisition costs such as sales commissions are being amortized over an expected benefit period that is longer than the Company's previous policy of amortizing the deferred amounts over the specific revenue contract term for the associated contract.

The Company applied ASC 606 using two practical expedients: 1) for the reporting periods presented before January 1, 2018, the Company doesn't disclose the amount of the transaction price allocated to the remaining performance obligations or an explanation of when the Company expects to recognize that amount as revenue; 2) the Company doesn't disclose the amount of the transaction price allocated to the remaining performance obligations for contracts with an original expected length of one year or less.

Select consolidated balance sheet line items, which reflect the adoption of the new standard, are as follows:

	December 31, 2017		
	As		
	Previously		
	Reported	Adjustments	As Adjusted
Assets			
Accounts receivable, net	\$ 109,325	\$ (1,629)	\$ 107,696
Deferred commissions, current	\$ 27,144	\$ (895)	\$ 26,249
Long-term deferred commissions	\$ 5,811	\$ 46,143	\$ 51,954
Liabilities			
Accrued liabilities	\$ 63,926	\$ 1,577	\$ 65,503
Deferred revenue	\$ 381,915	\$ (17,394)	\$ 364,521
Long-term deferred revenue	\$ 69,873	\$ (6,555)	\$ 63,318
Stockholders' Equity			
Accumulated deficit	\$ (554,444)	\$ 65,991	\$ (488,453)

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Select consolidated statements of operations line items, which reflect the adoption of the new standard, are as follows:

	Year Ended December 31, 2017		
	As Previously		As
	Reported	Adjustments	Adjusted
Revenue:			
Subscription	\$ 503,257	\$ 3,098	\$ 506,355
Hardware and services	12,032	1,294	13,326
Total revenue	\$ 515,289	\$ 4,392	\$ 519,681
Gross profit	\$ 371,911	\$ 4,392	\$ 376,303
Operating expense:			
Sales and marketing	\$ 258,837	\$ (10,143)	\$ 248,694
Operating loss	\$ (69,464)	\$ 14,535	\$ (54,929)
Net loss	\$ (84,337)	\$ 14,535	\$ (69,802)
Net loss per share, basic and diluted	\$ (1.91)	\$ 0.33	\$ (1.58)

77

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

	Year Ended December 31, 2016		
	As		
	Previously		
	Reported	Adjustments	As Adjusted
Revenue:			
Subscription	\$365,960	\$ 1,534	\$367,494
Hardware and services	9,536	1,307	10,843
Total revenue	\$375,496	\$ 2,841	\$378,337
Gross profit	\$266,903	\$ 2,841	\$269,744
Operating expense:			
Sales and marketing	\$201,204	\$ (11,880)	\$189,324
Operating loss	\$(85,581)	\$ 14,721	\$(70,860)
Net loss	\$(111,208)	\$ 14,721	\$(96,487)
Net loss per share, basic and diluted	\$(2.66)	\$ 0.35	\$(2.31)

Select consolidated statement of cash flows line items, which reflect the adoption of the new standard are as follows:

	Year Ended December 31, 2017		
	As		
	Previously		
	Reported	Adjustments	As Adjusted
Cash flows from operating activities			
Net loss	\$(84,337)	\$ 14,535	\$(69,802)
Adjustments to reconcile net loss to net cash provided by			
operating activities:			
Amortization of deferred commissions	\$36,865	\$ (8,389)	\$28,476
Changes in assets and liabilities:			
Accounts receivable	\$(33,538)	\$ 1,794	\$(31,744)
Deferred commissions	\$(44,157)	\$ (1,753)	\$(45,910)
Accrued liabilities	\$13,943	\$ 596	\$14,539
Deferred revenue	\$123,507	\$ (6,783)	\$116,724
Net cash provided by operating activities	\$153,686	\$ —	\$153,686

Year Ended December 31, 2016

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	As Previously		As Adjusted
	Reported	Adjustments	
Cash flows from operating activities			
Net loss	\$(111,208)	\$ 14,721	\$(96,487)
Adjustments to reconcile net loss to net cash provided by			
operating activities:			
Amortization of deferred commissions	\$33,147	\$ (10,443)	\$22,704
Changes in assets and liabilities:			
Accounts receivable	\$(18,737)	\$ 16	\$(18,721)
Deferred commissions	\$(36,009)	\$ (1,437)	\$(37,446)
Accrued liabilities	\$6,398	\$ (354)	\$6,044
Deferred revenue	\$87,255	\$ (2,503)	\$84,752
Net cash provided by operating activities	\$94,235	\$ —	\$94,235

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The core principle of ASC 606 is to recognize revenue to depict the transfer of services or products to customers in an amount that reflects the consideration the Company expects to be entitled to in exchange for those services or products. The principle is achieved through the following five-step approach:

1. Identification of the contract, or contracts, with the customer - The Company considers the terms and conditions of the contract and its customary business practice in identifying its contracts under ASC 606. The Company determines it has a contract with a customer when the contract is approved, the Company can identify each party's rights regarding the services and products to be transferred, the Company can identify the payment terms for the services and products, the Company has determined the customer has the ability and intent to pay and the contract has commercial substance. At contract inception, the Company evaluates whether two or more contracts should be combined and accounted for as a single contract and whether the combined contract or single contract includes more than one performance obligation. The Company applies judgment in determining the customer's ability and intent to pay, which is based on a variety of factors, including the customer's historical payment experience or, in the case of a new customer, credit and financial information pertaining to the customer.

2. Identification of the performance obligation in the contract - Performance obligations promised in a contract are identified based on the services or products that will be transferred to the customer that are both i) capable of being distinct, whereby the customer can benefit from the service or product either on its own or together with other resources that are readily available from third parties or from the Company, and ii) distinct in the context of the contract, whereby the transfer of the services or products is separately identifiable from other promises in the contract. To the extent a contract includes multiple promised services or products, the Company applies judgment to determine whether promised services or products are capable of being distinct and distinct in the context of the contract. If these criteria are not met the promised services or products are accounted for as a combined performance obligation.

3. Determination of the transaction price - The transaction price is determined based on the consideration to which the Company expects to be entitled in exchange for transferring services and products to the customer. Variable consideration is included in the transaction price if, in the Company's judgment, it is probable that a significant future reversal of cumulative revenue under the contract will not occur. None of the Company's contracts contain a significant financing component.

4. Allocation of the transaction price to the performance obligations in the contract - If the contract contains a single performance obligation, the entire transaction price is allocated to the single performance obligation. Contracts that contain multiple performance obligations require an allocation of the transaction price to each performance obligation based on a relative standalone selling price, or SSP, basis.

5. Recognition of revenue when, or as, the Company satisfies a performance obligation - The Company recognizes revenue when control of the services or products are transferred to the customers, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those services or products. The Company records its revenue net of any value added or sales tax.

The Company generates sales directly through its sales team and, to a growing extent, through its channel partners. Sales to channel partners are made at a discount and revenues are recorded at this discounted price once all revenue recognition criteria are met. Channel partners generally receive an order from an end-customer prior to placing an order with the Company, and these partners do not carry any inventory of the Company's products or solutions. Payment from channel partners is not contingent on the partner's success in sales to end-customers. In the event that the Company offers rebates, joint marketing funds, or other incentive programs to a partner, recorded revenues are reduced by these amounts accordingly.

Payment terms on invoiced amounts are typically 30 to 45 days.

79

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Disaggregation of Revenue

The Company derives its revenue primarily from: (1) subscription service revenue; (2) subscription software revenue, and (3) hardware and services, which include professional service and training revenue provided to customers related to their use of the platform.

The following table presents the Company's revenue disaggregation:

	Year Ended December 31,		
	2018	2017	2016
Subscription service revenue	\$681,138	\$489,274	\$354,341
Subscription software revenue	23,262	17,081	13,153
Hardware and services	12,594	13,326	10,843
Total revenue	\$716,994	\$519,681	\$378,337

Subscription service revenue

Subscription service revenue is derived from a subscription-based enterprise licensing model with contract terms typically ranging from one to three years, and consists of (1) subscription fees from the licensing of the Company's security-as-a-service platform and its various components, (2) subscription fees for software with support and related future updates where the software updates are critical to the customers' ability to derive benefit from the software due to the fast changing nature of the technology. These function together as one performance obligation, and (3) subscription fees for the right to access the Company's customer support services for software with significant standalone functionality and support services for hardware. The hosted on-demand service arrangements do not provide customers with the right to take possession of the software supporting the hosted services. Support revenue is derived from ongoing security updates, upgrades, bug fixes, and maintenance. A time-elapsed method is used to measure progress because the Company transfers control evenly over the contractual period. Accordingly, the fixed consideration related to subscription service revenue is generally recognized on a straight-line basis over the contract term beginning on the date access is provided, as long as other revenue recognition criteria have been met. Most of the company's contracts are non-cancelable over the contract term. Customers typically have the right to terminate their contract for cause if the Company fails to perform in accordance with the contractual terms. Some of the Company's customers have the option to purchase additional subscription services at a stated price. These options are evaluated on a case-by-case basis but generally do not provide a material right as they are priced at or above the Company's SSP and, as such, would not result in a separate performance obligation.

Subscription software revenue

Subscription software revenue is primarily derived from term-based software that is deployed on the customers' own servers and has significant standalone functionality, is recognized upon transfer of control to the customer. The control for subscription software is transferred at the later of delivery to the customer or the software license start date.

Hardware and services

Hardware revenue consists of amounts derived from the sale of the Company's on-premise hardware appliance, which is recognized upon passage of control, which occurs upon shipment of the product. Professional services revenue consists of fees associated with consulting, implementation and training services for assisting customers in implementing and expanding the use of the Company's services and products. These services are distinct from subscription, subscription software licenses and hardware. Professional services do not result in significant customization of the Company's services and products. The Company recognizes revenue related to the professional services as they are performed.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Contracts with multiple performance obligations

Most of the Company's contracts with customers contain multiple performance obligations that are distinct and accounted for separately. The transaction price allocated to subscription services and subscription software that does not have significant standalone functionality is determined by considering factors such as historical pricing practices, and the selling price of hardware and professional services is estimated using a cost plus model. The selling price for support of a functional subscription software license is calculated as a percentage of functional subscription software license value which is derived by analyzing internal pricing practice, customer expectations, and industry practice.

Variable Consideration

Revenue from sales is recorded at the net sales price, which is the transaction price, and includes estimates of variable consideration. The amount of variable consideration that is included in the transaction price is constrained, and is included in the net sales price only to the extent that it is probable that a significant reversal in the amount of the cumulative revenue will not occur when the uncertainty is resolved. If the Company's services or products do not meet certain service level commitments, the Company's customers are entitled to receive service credits representing a form of variable consideration. The Company has not historically experienced any significant incidents affecting the defined levels of reliability and performance as required by the Company's subscription contracts. Accordingly, any estimated refunds related to these contracts in the consolidated financial statements are not material during the periods presented.

Unbilled accounts receivables

Unbilled accounts receivable represents amounts for which the Company has recognized revenue, pursuant to its revenue recognition policy, for software licenses already delivered and professional services already performed, but billed in arrears and for which the Company believes it has an unconditional right to payment. The unbilled accounts receivable balance, included in accounts receivable in the consolidated balance sheet, was \$1,276 and \$603 as of December 31, 2018 and 2017, respectively.

Deferred commissions

The Company capitalizes sales commissions and associated payroll taxes paid to internal sales personnel, and referral fees paid to independent third-parties, that are incremental to the acquisition of customer contracts. These costs are recorded as deferred commissions on the consolidated balance sheets. The Company determines whether costs should be deferred based on its sales compensation plans, if the commissions are incremental and would not have occurred absent the customer contract. Sales commissions for renewal of a subscription contract are not considered commensurate with the commissions paid for the acquisition of the initial subscription contract given the substantive difference in commission rate between new and renewal contracts. Commissions paid upon the initial acquisition of a contract are amortized over an estimated period of benefit of five years while commissions paid related to renewal contracts are amortized over a contractual renewal period. Amortization is recognized based on the expected future revenue streams under the customer contracts. Amortization of deferred sales commissions is included in sales and marketing expense in the accompanying consolidated statements of operations. The Company determines the period of benefit for commissions paid for the acquisition of the initial subscription contract by taking into consideration its

initial estimated customer life and the technological life of the Company's software and related significant features. The Company classifies deferred commissions as current or long-term based on the timing of when the Company expects to recognize the expense. The Company periodically reviews these deferred commission costs to determine whether events or changes in circumstances have occurred that could impact the period of benefit of these deferred contract acquisition costs. There were no material impairment losses recorded during the periods presented.

For the years ended December 31, 2018, 2017 and 2016, the Company capitalized \$66,254, \$45,910 and \$37,446 of commission costs, respectively, and amortized \$37,076, \$28,476 and \$22,704, respectively.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Deferred product costs

Deferred product costs are the incremental costs to fulfill a contract that are directly associated with each non-cancellable customer contract and primarily consist of royalty payments made to third parties, from whom the Company has obtained licenses to integrate certain software into its products. The deferred product costs are recognized based on the contractual term, and included in cost of revenue in the accompanying consolidated statements of operations. The Company classifies deferred product costs as current or long-term based on the timing of when the Company expects to recognize the expense.

For the years ended December 31, 2018, 2017 and 2016, the Company capitalized \$2,765, \$2,510 and \$2,922 of deferred product costs, respectively, and amortized \$2,463, \$2,849 and \$3,325, respectively.

Deferred revenue

The Company records deferred revenue when cash payments are received, or invoices are issued in advance of the Company's performance, and generally recognizes revenue over the contractual term. The Company recognized revenue of \$363,483, \$242,428 and \$168,673 during the years ended December 31, 2018, 2017 and 2016, respectively, that was included in the deferred revenue balances at the beginning of the respective periods.

The Company recognized \$2,901, \$1,055 and \$983 of revenue during the years ended December 31, 2018, 2017 and 2016, respectively, related to the performance obligations satisfied in prior periods. The acquisition of Wombat Securities, Inc. (see Note 3 "Acquisitions") on February 28, 2018, increased deferred revenue by \$14,700, of which \$12,187 was recognized in the year ended December 31, 2018.

Remaining performance obligations

Contracted revenue as of December 31, 2018 that has not yet been recognized ("contracted not recognized") was \$472,989, which includes deferred revenue and non-cancellable amounts that will be invoiced and recognized as revenue in future periods and excludes contracts with an original expected length of one year or less. The Company expects 62% of contracted and not recognized revenue to be recognized over the next twelve months, 37% in years two and three, with the remaining balance recognized thereafter.

3. Acquisitions

Acquisitions are accounted for under the purchase method of accounting in which the tangible and identifiable intangible assets and liabilities of each acquired company are recorded at their respective fair values as of each acquisition date, including an amount for goodwill representing the difference between the respective acquisition consideration and fair values of identifiable net assets. The Company believes that for each acquisition, the combined entities will achieve savings in corporate overhead costs and opportunities for growth through expanded geographic and customer segment diversity with the ability to leverage additional products and capabilities. These factors, among others, contributed to a purchase price in excess of the estimated fair value of each acquired company's net identifiable assets acquired and, as a result, goodwill was recorded in connection with each acquisition. Goodwill related to each acquisition below is not deductible for tax purposes.

While the Company uses its best estimates and assumptions as part of the purchase price allocation process to value assets acquired and liabilities assumed at the acquisition date, these estimates and assumptions are subject to refinement. When additional information becomes available, such as finalization of negotiations of working capital adjustments and tax related matters, the Company may revise its preliminary purchase price allocation. As a result, during the preliminary purchase price allocation period, which may be up to one year from the acquisition date, the Company may record adjustments to the assets acquired and liabilities assumed, with the corresponding offset to goodwill. Subsequent to the purchase price allocation period, adjustments to assets acquired or liabilities assumed are recognized in the operating results.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

2018 Acquisitions

Wombat Security Technologies, Inc.

On February 28, 2018 (the “Wombat Acquisition Date”), pursuant to the terms of the merger agreement, the Company acquired all shares of Wombat Security Technologies, Inc. (“Wombat”), a leader for phishing simulation and security awareness computer-based training. By collecting data from Wombat’s PhishAlarm solution, the Company has access to data on phishing campaigns as seen by non-Company customers, providing broader visibility and insight to the Proofpoint Nexus platform.

With this acquisition, the Company’s customers can leverage the industry’s first solution combining the Company’s advanced threat protection with Wombat’s phishing simulation and computer-based security awareness training. With the combined solutions, the Company’s customers can:

- Use real detected phishing attacks for simulations, assessing users based on the threats that are actually targeting them;
- Both investigate and take action on user-reporting phishing, leveraging orchestration and automation to find real attacks, quarantine emails in users’ inboxes, and lock user accounts to limit risk;
- Train users in the moment immediately after they click for both simulated and real phishing attacks.

The Company also expects to achieve savings in corporate overhead costs for the combined entities. These factors, among others, contributed to a purchase price in excess of the estimated fair value of acquired net identifiable assets and, as a result, goodwill was recorded in connection with the acquisition.

The Company has estimated fair values of acquired tangible assets, intangible assets and liabilities at the Wombat Acquisition Date. The results of operations and the fair values of the acquired assets and liabilities assumed have been included in the accompanying consolidated financial statements since the Wombat Acquisition Date.

At the Wombat Acquisition Date, the consideration transferred was \$225,366, net of cash acquired of \$13,452. Of the consideration transferred, \$22,500 was held in escrow to secure indemnification obligations, which has not been released as of the issuance of these consolidated financial statements. The Company incurred \$719 in acquisition-related costs which were recorded within operating expenses for the year ended December 31, 2018. The Company recorded \$34,958 in revenue from Wombat for the year ended December 31, 2018, and due to the continued integration of the combined businesses, it was impractical to determine the earnings.

Per the terms of the merger agreement, unvested in-the-money stock options held by Wombat employees were canceled and paid off using the same amount per option as for the common share less applicable exercise price for each option. The fair value of \$1,580 of these unvested options was attributed to pre-combination service and included in consideration transferred. The fair value of unvested options of \$1,571 was allocated to post-combination services and expensed in the three months ended March 31, 2018. Also, as part of the merger agreement, 51 shares of the Company’s common stock were deferred for certain key employees with the total fair value of \$5,458 (see Note 10 “Equity Award Plans”), which was not included in the purchase price. The deferred shares are subject to forfeiture if employment terminates prior to the lapse of the restrictions, and their fair value is expensed as stock-based compensation expense over the vesting period.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table summarizes the fair values of tangible assets acquired, liabilities assumed, intangible assets and goodwill:

	Estimated	Estimated Useful Life
	Fair Value	(in years)
Current assets	\$23,344	N/A
Fixed assets	954	N/A
Customer relationships	37,800	7
Order backlog	6,800	2
Core/developed technology	35,200	4
Trade name	2,400	4
Deferred revenue	(14,700)	N/A
Deferred tax liability, net	(14,725)	N/A
Other liabilities	(1,120)	N/A
Goodwill	162,865	Indefinite
	\$238,818	

2017 Acquisitions

Cloudmark, Inc.

On November 21, 2017 (the “Cloudmark Acquisition Date”), pursuant to the terms of the merger agreement, the Company acquired all shares of Cloudmark, Inc. (“Cloudmark”), a leader in messaging security and threat intelligence for internet service providers and mobile carriers worldwide. As part of the acquisition, Cloudmark’s Global Threat Network was incorporated into Company’s cloud-based Nexus platform, which powers its email, social media, mobile, and SaaS security effectiveness.

The Company believes that with this acquisition, it will benefit from increased messaging threat intelligence from the analysis of billions of daily emails, malicious domain intelligence, and visibility into fraudulent and malicious SMS messages directed to mobile carriers worldwide. The Company also expects to achieve savings in corporate overhead costs for the combined entities. These factors, among others, contributed to a purchase price in excess of the estimated fair value of acquired net identifiable assets and, as a result, goodwill was recorded in connection with the acquisition.

The Company has estimated fair values of acquired tangible assets, intangible assets and liabilities at the Cloudmark Acquisition Date. The results of operations and the fair values of the acquired assets and liabilities assumed have been included in the accompanying consolidated financial statements since the Cloudmark Acquisition Date.

At the Cloudmark Acquisition Date, the consideration transferred was \$107,283, net of cash acquired of \$31,973. Of the consideration transferred, \$16,700 was held in escrow to secure indemnification obligations, which has not been released as of the issuance of these consolidated financial statements.

Per the terms of the merger agreement, unvested stock options and unvested restricted stock units held by Cloudmark employees were canceled and exchanged for the Company's unvested stock options and unvested restricted stock units, respectively. The fair value of \$91 of these unvested awards was attributed to pre-combination services and included in consideration transferred. The fair value of \$1,180 was allocated to post-combination services. The unvested awards are subject to the recipient's continued service with the Company, and \$1,180 is recognized ratably as stock-based compensation expense over the required remaining service period.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table summarizes the fair values of tangible assets acquired, liabilities assumed, intangible assets and goodwill:

	Fair Value	Estimated Useful Life (in years)
Current assets	\$37,390	N/A
Fixed assets	543	N/A
Non-current assets	74	N/A
Liabilities	(4,422)	N/A
Deferred revenue	(15,400)	N/A
Customer relationships	15,300	8
Order backlog	1,400	1
Core/developed technology	18,500	4
Deferred tax liability, net	(7,905)	N/A
Goodwill	93,776	Indefinite
	\$139,256	

WebLife Balance, Inc.

On November 30, 2017 (the “WebLife Acquisition Date”), pursuant to the terms of a merger agreement, the Company acquired all shares of WebLife Balance, Inc. (“WebLife”), a browser isolation offerings vendor, to extend its advanced threat protection capabilities into personal email, while preserving the privacy of its users.

The Company has estimated fair values of acquired tangible assets, intangible assets and liabilities at the WebLife Acquisition Date. The results of operations and the fair values of the acquired assets and liabilities assumed have been included in the accompanying consolidated financial statements since the WebLife Acquisition Date.

At the WebLife Acquisition Date, the consideration transferred was \$48,765, net of cash acquired of \$278. Of the consideration transferred, \$6,203 was held in escrow to secure indemnification obligations, which has not been released as of the issuance of these consolidated financial statements.

Per the terms of the merger agreement, unvested stock options held by WebLife employees were canceled and exchanged for the Company’s unvested awards. The fair value of \$333 of these unvested options was attributed to pre-combination service and included in consideration transferred. The fair value of \$1,468 was allocated to post-combination services. The unvested awards are subject to the recipient’s continued service with the Company, and \$1,468 is recognized ratably as stock-based compensation expense over the required remaining service period. Also,

as part of the merger agreement, 107 shares of the Company's common stock were deferred for certain key employees with the total fair value of \$9,652 (see Note 10 "Equity Award Plans"), which was not included in the purchase price. The deferred shares are subject to forfeiture if employment terminates prior to the lapse of the restrictions, and their fair value is expensed as stock-based compensation expense over the vesting period.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table summarizes the fair values of tangible assets acquired, liabilities assumed, intangible assets and goodwill:

	Fair Value	Estimated Useful Life (in years)
Current assets	\$534	N/A
Fixed assets	23	N/A
Liabilities	(88)	N/A
Deferred revenue	(700)	N/A
Customer relationships	600	5
Core/developed technology	16,600	5
Deferred tax liability, net	(4,440)	N/A
Goodwill	36,514	Indefinite
	\$49,043	

2016 Acquisitions

FireLayers

On October 24, 2016 (the “FireLayers Acquisition Date”), pursuant to the terms of a share purchase agreement, the Company acquired all shares of FireLayers, Ltd. (“FireLayers”), a provider of solutions for organizations to control and protect their cloud applications. With this acquisition, the Company extends Targeted Attack Protection to SaaS applications, enabling customers to protect their employees using SaaS applications from advanced malware.

The Company has estimated fair values of acquired tangible assets, intangible assets and liabilities at the FireLayers Acquisition Date. The results of operations and the fair values of the acquired assets and liabilities assumed have been included in the accompanying consolidated financial statements since the FireLayers Acquisition Date.

The total purchase price was \$45,616, net of cash acquired of \$210. Of the cash consideration paid, \$7,740 was held in escrow to secure indemnification obligations, which has not been released as of the issuance of these consolidated financial statements.

Per the terms of the share purchase agreement, unvested stock options held by FireLayers employees were canceled and exchanged for unvested stock options to purchase shares of the Company’s common stock. The fair value of \$1,326 of these unvested options, which are subject to the recipient’s continued service with the Company and thus excluded from the purchase price, are recognized ratably as stock-based compensation expense over the required

service period. Also, as part of the share purchase agreement, 111 shares of restricted stock were issued to certain key employees with the total fair value of \$8,669 (see Note 10), which was not included in the purchase price. The shares of restricted stock are subject to forfeiture if employment terminates prior to the lapse of the restrictions, and their fair value is expensed as stock-based compensation expense over the vesting period.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table summarizes the fair values of acquired assets and liabilities:

	Fair Value	Estimated Useful Life (in years)
Current assets acquired	\$432	N/A
Developed technology	22,600	5
Fixed assets	52	N/A
Deferred tax liability, net	(3,530)	N/A
Other liabilities assumed	(540)	N/A
Additional-paid-in-capital	(176)	N/A
Goodwill	26,988	Indefinite
	\$45,826	

Return Path

On August 24, 2016 (the “Return Path Acquisition Date”), pursuant to the terms of an asset purchase agreement, the Company acquired Return Path, Inc.’s (“Return Path”) Email Fraud Protection (“EFP”) business unit. Return Path’s EFP business, which provides standards-based DMARC authentication and proprietary sender-analysis capabilities, is integrated into the Company’s suite of email protection solutions to further enhance its business email compromise capabilities.

The Company has estimated fair values of acquired tangible assets, intangible assets and liabilities at the Return Path Acquisition Date. The results of operations and the fair values of the acquired assets and liabilities assumed have been included in the accompanying consolidated financial statements since the Return Path Acquisition Date. Pro forma results of operations have not been presented because the acquisition was not material to the Company’s consolidated financial statements.

The total purchase price was \$17,513, of which \$9,162 was classified and recorded as contingent consideration on the balance sheet as of the Return Path Acquisition Date.

The fair value of the contingent consideration liability was determined as of the acquisition date using unobservable inputs. These inputs included the estimated amount and timing of future contract assignments, the probability of success and a risk-adjusted discount rate to adjust the probability-weighted cash flows to present value.

The following table summarizes the fair values of acquired assets and liabilities:

	Fair Value	Estimated Useful Life (in years)
Customer relationships	\$7,600	6
Developed technology	3,900	4
Order backlog	700	1
Deferred revenue assumed	(1,200)	N/A
Goodwill	6,513	Indefinite
	\$17,513	

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Pro Forma Financial Information (unaudited)

The following unaudited pro forma financial information presents the combined results of operations for the years ended December 31, 2018, 2017 and 2016 as though the acquisitions that occurred during the reporting periods had occurred as of the beginning of the comparable prior annual reporting periods, with adjustments to give effect to pro forma events that are directly attributable to the acquisitions such as amortization expense of acquired intangible assets, stock-based compensation directly attributable to the acquisitions and acquisition-related transaction costs. The unaudited pro forma results do not include the acquisition of Return Path, and do not reflect any operating efficiencies or potential cost savings which may result from the consolidation of the operations of the Company and acquisitions. Accordingly, these unaudited pro forma results are presented for informational purposes only and are not necessarily indicative of what the actual results of operations of the combined company would have been if the acquisitions had occurred at the beginning of the period presented, nor are they indicative of future results of operations:

	Year Ended December 31,		
	2018	2017	2016
Total revenue	\$723,628	\$594,966	\$414,539
Net loss	\$(103,980)	\$(89,221)	\$(108,896)
Basic and diluted net loss per share	\$(2.00)	\$(2.02)	\$(2.60)

The unaudited pro forma financial information includes acquisition-related transaction costs of \$719 for the year ended December 31, 2018.

4. Concentration of Risks

Financial instruments that potentially subject the Company to credit risk consist principally of cash and cash equivalents, short-term investments and accounts receivable.

The Company limits its concentration of risk in cash equivalents and short-term investments by diversifying its investments among a variety of industries and issuers and by limiting the average maturity to one year or less. The Company's professional portfolio managers adhere to this investment policy as approved by the Company's Board of Directors.

The Company's investment policy is to invest only in fixed income investments denominated and payable in U.S. dollars. Investment in obligations of the U.S. government and its agencies, money market instruments, commercial paper, certificates of deposit, bankers' acceptances, corporate bonds of U.S. companies, municipal securities and asset backed securities are allowed. The Company does not invest in auction rate securities, futures contracts, or hedging instruments.

The Company's accounts receivables are derived from revenue earned from customers primarily located in the United States of America. The Company performs periodic evaluations of its customers' financial condition and generally

does not require its customers to provide collateral or other security to support accounts receivable, and maintains an allowance for doubtful accounts. Credit losses historically have not been material.

During the years ended December 31, 2018 and 2017, one partner accounted for 12% of total revenue, though the partner sold to a number of end-users, none of which accounted for more than 10% of our total revenue in 2018 and 2017. During the year ended December 31, 2016, no individual customers accounted for more than 10% of total revenue.

Two partners accounted for 12% of total accounts receivable each as of December 31, 2018, and one partner accounted for 11% of total accounts receivable as of December 31, 2017.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

5. Balance Sheet Components

Property and equipment at December 31, 2018 and December 31, 2017 consist of the following:

	Useful Life (in years)	December 31,	
		2018	2017
Computer equipment	2 to 4	\$ 142,777	\$ 125,296
Software	2 to 5	3,782	2,647
Furniture	5	3,637	2,523
Office equipment	2 to 5	585	587
Leasehold improvements	5 years, or lease term, if shorter	13,129	10,632
Other	2	59	59
Construction in progress		1,088	1,854
		165,057	143,598
Less: Accumulated depreciation		(94,430)	(69,981)
		\$70,627	\$73,617

Property and equipment acquired under capital leases:

	December 31, 2018 2017
Computer equipment	\$—\$453
Less: Accumulated depreciation	— (372)
	\$—\$81

Depreciation expense for the years ended December 31, 2018, 2017 and 2016 \$32,396, \$23,591, and \$17,131, respectively. This included depreciation expense for assets under capital leases of \$29, \$31 and \$31 for the years ended December 31, 2018, 2017 and 2016, respectively.

The allowance for doubtful accounts receivable was not material as of December 31, 2018 and 2017.

Accrued liabilities at December 31, 2018 and December 31, 2017 consisted of the following:

	December 31,	
	2018	2017
Accrued compensation	\$55,924	\$38,605
ESPP contributions	3,224	2,339
Customer deposits	5,961	570
Accrued royalties	1,373	780
Acquisition-related contingent consideration	—	634
Other	24,237	22,575
	\$90,719	\$65,503

6. Goodwill and Intangible Assets

The goodwill activity and balances are presented below:

	Year Ended	
	December 31,	
	2018	2017
Beginning balance	\$297,704	\$167,270
Acquisitions during period	162,865	130,434
Purchase accounting adjustments	(144)	—
Closing balance	\$460,425	\$297,704

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Intangible Assets

Intangible assets consisted of the following:

	December 31, 2018			December 31, 2017		
	Gross		Net	Gross		Net
	Carrying Amount	Accumulated Amortization	Carrying Amount	Carrying Amount	Accumulated Amortization	Carrying Amount
Developed technology	\$154,069	\$ (79,525)	\$74,544	\$118,869	\$ (52,554)	\$66,315
Customer relationships	71,400	(15,166)	56,234	33,600	(5,918)	27,682
Trademark and patents	3,330	(1,430)	1,900	930	(825)	105
Order backlog	6,800	(2,833)	3,967	2,300	(800)	1,500
	\$235,599	\$ (98,954)	\$136,645	\$155,699	\$ (60,097)	\$95,602

Amortization expense of intangibles totaled \$41,157, \$18,506 and \$14,421 during the years ended December 31, 2018, 2017 and 2016, respectively.

Future estimated amortization costs of intangible assets as of December 31, 2018 are presented below:

Year Ended December 31,	
2019	\$39,650
2020	34,566
2021	31,698
2022	13,501
2023	7,312
Thereafter	9,918
	\$136,645

7. Fair Value Measurements and Investments

Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e., the “exit price”) in an orderly transaction between market participants at the measurement date. A hierarchy for inputs used in measuring fair value has been defined to minimize the use of unobservable inputs by requiring the use of observable

market data when available. Observable inputs are inputs that market participants would use in pricing the asset or liability based on active market data. Unobservable inputs are inputs that reflect the Company's assumptions about the assumptions market participants would use in pricing the asset or liability based on the best information available in the circumstances.

The fair value hierarchy prioritizes the inputs into three broad levels:

Level 1: Quoted (unadjusted) prices in active markets for identical assets or liabilities. The Company's Level 1 assets generally consist of money market funds.

Level 2: Observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the asset or liability. The Company's Level 2 assets and liabilities generally consist of corporate debt securities, commercial papers, U.S. agency and Treasury securities.

Level 3: Unobservable inputs to the valuation methodology that are supported by little or no market activity and that are significant to the measurement of the fair value of the assets or liabilities. Level 3 assets and liabilities include those whose fair value measurements are determined using pricing models, discounted cash flow methodologies or similar valuation techniques, as well as significant management judgment or estimation.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

In connection with the acquisition of Return Path, a liability was recognized on Return Path Acquisition Date for the estimate of the fair value of the Company's contingent payment. The Company determined the fair value of the Acquisition-related contingent liability based on the estimated amount and timing of future contract assignments, and the probability of success. This fair value measurement is based on significant inputs not observable in the market and thus represent Level 3 measurement.

The following tables summarize, for each category of assets or liabilities carried at fair value, the respective fair value as of December 31, 2018 and December 31, 2017 and the classification by level of input within the fair value hierarchy:

	December 31, 2018			
	Total	Level 1	Level 2	Level 3
Assets				
Cash equivalents:				
Money market funds	\$ 133,202	\$ 133,202	\$—	\$ —
Commercial paper	12,478	—	12,478	—
Short-term investments:				
Corporate debt securities	13,470	—	13,470	—
Commercial paper	30,838	—	30,838	—
U.S. Treasury securities	1,999	—	1,999	—
Total financial assets	\$ 191,987	\$ 133,202	\$ 58,785	\$ —
	December 31, 2017			
	Total	Level 1	Level 2	Level 3
Assets				
Cash equivalents:				
Money market funds	\$ 231,828	\$ 231,828	\$—	\$—
Commercial paper	7,995	—	7,995	—
U.S. agency securities	1,996	—	1,996	—
Short-term investments:				
Corporate debt securities	11,600	—	11,600	—
Commercial paper	27,939	—	27,939	—
U.S. agency securities	3,991	—	3,991	—
U.S. Treasury securities	1,996	—	1,996	—
Total financial assets	\$ 287,345	\$ 231,828	\$ 55,517	\$—
Liabilities				
Acquisition-related contingent consideration	\$ 634	\$—	\$—	\$ 634

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table represents a reconciliation of the Acquisition-related contingent consideration liability measured at fair value on a recurring basis, using significant unobservable inputs (Level 3):

	Amount
Balance as of December 31, 2015	\$—
Additions during the period	9,162
Payments during the period	(260)
Adjustments to fair value during the period recorded in General and	
administrative expenses	(669)
Balance as of December 31, 2016	8,233
Additions during the period	—
Payments during the period	(6,066)
Adjustments to fair value during the period recorded in General and	
administrative expenses	(1,533)
Balance as of December 31, 2017	634
Additions during the period	—
Payments during the period	(555)
Adjustments to fair value during the period recorded in General and	
administrative expenses	(79)
Balance as of December 31, 2018	\$—

The carrying amounts of the Company's cash equivalents, accounts receivable and accounts payable approximate their fair values due to their short maturities.

Investments

The cost and fair value of the Company's cash, cash equivalents and available-for-sale investments as of December 31, 2018 and December 31, 2017 were as follows:

	December 31, 2018			
	Amortized	Unrealized	Unrealized	Fair
	Cost	Gains	Losses	Value
Cash and cash equivalents:				
Cash	\$39,712	\$ —	\$ —	\$39,712

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Money market funds	133,202	—	—	133,202
Commercial paper	12,478	—	—	12,478
Total	\$185,392	\$	—	\$185,392

Short-term investments:				
Corporate debt securities	\$13,477	\$	—	\$ (7) \$13,470
Commercial paper	30,838	—	—	30,838
U.S. Treasury securities	1,999	—	—	1,999
Total	\$46,314	\$	—	\$ (7) \$46,307

92

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

	December 31, 2017			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Cash and cash equivalents:				
Cash	\$44,253	\$ —	\$ —	\$44,253
Money market funds	231,828	—	—	231,828
Commercial paper	7,995	—	—	7,995
U.S. agency securities	1,996	—	—	1,996
Total	\$286,072	\$ —	\$ —	\$286,072
Short-term investments:				
Corporate debt securities	\$11,607	\$ —	\$ (7)	\$11,600
Commercial paper	27,939	—	—	27,939
U.S. agency securities	3,992	—	(1)	3,991
U.S. Treasury securities	1,997	—	(1)	1,996
Total	\$45,535	\$ —	\$ (9)	\$45,526

As of December 31, 2018 and 2017, all investments mature in less than one year. Fair values for marketable securities are based on quoted market prices for the same or similar instruments.

The Company reviews its investments on a quarterly basis to identify and evaluate investments that have an indication of possible impairment and has determined that no other-than-temporary impairments were required to be recognized during the years ended December 31, 2018, 2017 and 2016.

8. Commitments and Contingencies

Operating Leases

In October 2018, the Company entered into a 127 months lease agreement to lease approximately 242,400 square feet of corporate office space in Sunnyvale, California, which is expected to become the Company's new corporate headquarters beginning in 2020. The property will be constructed by the landlord, with the completion date expected to occur between April and August 2020. The lease contains a rent holiday period, scheduled rent increases, lease incentives, and renewal option which allow the lease term to be extended by 5 years. Base rental payments will be approximately \$161,300 over the lease term.

The Company leases certain of its facilities under non-cancellable operating leases with various expiration dates through 2031.

Premises rent expense was \$10,944, \$8,010 and \$5,054 for the years ended December 31, 2018, 2017 and 2016, respectively.

At December 31, 2018, future annual minimum lease payments under noncancellable operating leases were as follows:

	Operating Leases
2019	\$25,313
2020	17,535
2021	19,155
2022	21,581
2023	19,609
Thereafter	129,154
Total minimum lease payments	\$232,347

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Purchase Commitments

As of December 31, 2018, the Company's minimum purchase commitments for products and services were \$27,458, of which \$4,651 represent long-term purchase commitments through the year ending December 31, 2021.

Contingencies

Under the indemnification provisions of the Company's customer agreements, the Company agrees to indemnify and defend and hold harmless its customers against, among other things, infringement of any patent, trademark or copyright under any country's laws or the misappropriation of any trade secret arising from the customers' legal use of the Company's solutions. The exposure to the Company under these indemnification provisions is generally limited to the total amount paid by the customers under the applicable customer agreement. However, certain indemnification provisions potentially expose the Company to losses in excess of the aggregate amount paid to the Company by the customer under the applicable customer agreement. To date, there have been no claims against the Company or its customers pursuant to these indemnification provisions.

Legal Contingencies

From time to time, the Company may be involved in legal proceedings and subject to claims in the ordinary course of business. For lawsuits where the Company is the defendant, the Company is in the process of defending these litigation matters, and while there can be no assurances and the outcomes of these matters are currently not determinable, the Company currently believes that there are no existing claims or proceedings that are likely to have a material adverse effect on the Company's financial position, results of operations or cash flows.

9. Convertible Senior Notes

0.75% Convertible Senior Notes due June 2020

On June 17, 2015, the Company issued \$200,000 principal amount of 0.75% Convertible Senior Notes (the "0.75% Notes") due 2020 in a private offering to qualified institutional buyers ("Holders") pursuant to Rule 144A under the Securities Act of 1934, as amended (the "Securities Act"). The initial Holders of the 0.75% Notes also had an option to purchase an additional \$30,000 in principal amount which was exercised in full. The net proceeds after the agent's discount and issuance costs of \$6,581 from the 0.75% Notes offering were approximately \$223,419. The Company used the net proceeds for working capital and general corporate purposes, which included funding the Company's operations, capital expenditures, and acquisitions of businesses, products or technologies. The 0.75% Notes bore interest at 0.75% per year, payable semi-annually in arrears every June 15 and December 15, beginning on December 15, 2015.

In accordance with the authoritative accounting guidance, the Company allocated the total amount of the 0.75% Notes into liability and equity components. The carrying value of the liability component at issuance was calculated as the present value of its cash flows using a discount rate of 6.5% based on the blended rate between the yield rate for a Moody's B1 rating and the average debt rate for comparable convertible transactions from similar companies. The difference between the 0.75% Notes principal and the carrying value of the liability component, representing the value

of conversion premium assigned to the equity component, was recorded as an increase to additional paid in capital and as a debt discount on the issuance date. The equity component was being accreted using the effective interest rate method over the period from the issuance date through the conversion date as a non-cash charge to interest expense. Upon issuance of the 0.75% Notes, the Company recorded \$174,359 as debt and \$55,641 as additional paid in capital within stockholders' equity.

Additionally, the debt discount and issuance costs were allocated based on the total amount incurred to the liability and equity components using the same proportions as the proceeds from the 0.75% Notes. The equity issuance costs of \$1,592 were recorded as a decrease to additional paid-in capital at the issuance date.

During the quarter ended September 30, 2018, \$229,869 of the principal amount of the 0.75% Notes was converted into 2,928 shares of common stock, with the remaining \$142 repaid in cash. The shares of common stock had a fair value of \$336,994 at the time of the conversion. This transaction resulted in a \$7,207 loss on extinguishment that is included in interest expense in the Consolidated Statement of Operations. The loss on extinguishment was calculated as the difference between the fair value amount allocated to the liability component on the date of conversion and net carrying amount of the liability component.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table presents the carrying values of the 0.75% Notes as of December 31, 2018 and 2017:

	December 31, 2018	December 31, 2017
Liability component:		
Principal	\$ —	\$ 230,000
Less: debt discount and issuance costs, net of amortization	—	(32,142)
Net carrying amount	\$ —	\$ 197,858
Equity component (1)	\$ —	\$ 54,049

(1) Recorded on the consolidated balance sheet as additional paid-in capital, net of the issuance costs in equity 1.25% Convertible Senior Notes due December 2018

On December 11, 2013, the Company issued \$175,000 principal amount of 1.25% Convertible Senior Notes (the "1.25% Notes") due 2018 in a private offering to Holders pursuant to Rule 144A under the Securities Act. The initial Holders of the 1.25% Notes also had an option to purchase an additional \$26,250 in principal amount which was exercised in full. The net proceeds after the agent's discount and issuance costs of \$5,803 from the 1.25% Notes offering were approximately \$195,446. The Company used the net proceeds for working capital and general corporate purposes, which included funding the Company's operations, capital expenditures, and acquisitions of businesses, products or technologies believed to be of strategic importance. The 1.25% Notes bore interest at 1.25% per year, payable semi-annually in arrears every June 15 and December 15, beginning on June 15, 2014.

During the year ended December 31, 2017, \$201,250 of the principal amount of the 1.25% Notes was converted into 5,159 shares of common stock, with the remaining \$14 paid in cash. The shares of common stock had a fair value of \$473,176 at the time of the conversion. This resulted in a \$2,696 loss on extinguishment that is included in interest expense in the Consolidated Statement of Operations. The loss on extinguishment was calculated as the difference between the fair value amount allocated to the liability component and net carrying amount of the liability component.

For the years ended December 31, 2018, 2017 and 2016, the Company incurred the following interest expense and loss on conversion related to the Notes:

	2018	2017	2016
Interest expense related to contractual interest coupon	\$ 1,172	\$ 4,123	\$ 4,240
Amortization of debt discount and issuance costs	8,383	21,789	20,842
Loss on conversion	7,207	2,696	—
Total	\$ 16,762	\$ 28,608	\$ 25,082

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

10. Equity Award Plans

Stock-Based Compensation Plans

On March 30, 2012, the Board of Directors and the Company's stockholders approved the 2012 Equity Incentive Plan (the "2012 Plan"), which became effective in April 2012. The Company has six equity incentive plans: the Company's 2002 stock option plan (the "2002 Plan"), the 2012 Plan and four plans assumed by the Company upon various business acquisitions. The assumed plans are the Cloudmark plan, the WebLife plan, and two FireLayers plans. Upon the Company's initial public offering, all shares that were reserved under the 2002 Plan but not issued, and shares issued but subsequently returned to the plan through forfeitures, cancellations and repurchases became part of the 2012 Plan and no further shares will be granted pursuant to the 2002 Plan. No further shares will be granted pursuant to the assumed plans. All outstanding stock awards under the 2002 Plan, the assumed plans and 2012 Plan will continue to be governed by their existing terms. Under the 2012 Plan, the Company has the ability to issue incentive stock options ("ISOs"), nonstatutory stock options ("NSOs"), restricted stock awards, stock bonus awards, stock appreciation rights ("SARs"), restricted stock units ("RSUs"), and performance stock units ("PSUs"). The 2012 Plan also allows direct issuance of common stock to employees, outside directors and consultants at prices equal to the fair market value at the date of grant of options or issuance of common stock. Additionally, the 2012 Plan provides for the grant of performance cash awards to employees, directors and consultants. The Company has the right to repurchase any unvested shares (at the option exercise price) of common stock issued directly or under option exercises. The right of repurchase generally expires over the vesting period.

Stock bonus and other liability awards are accounted for as liability-classified awards, because the obligations are based predominantly on fixed monetary amounts that are generally known at the inception of the obligation, to be settled with a variable number of shares of the Company's common stock.

Under the equity incentive plans, the term of an option grant shall not exceed ten years from the date of its grant and options generally vest over a three to four-year period, with vesting on a monthly or annual interval. Under the 2012 Plan, 20,316 shares of common stock are reserved for issuance to eligible participants. As of December 31, 2018, 3,385 shares were available for future grant. Restricted stock awards generally vest over a four-year period.

The Company net-share settles equity awards held by employees by withholding shares upon vesting to satisfy tax withholding obligations. The shares withheld to satisfy employee tax withholding obligations are returned to the Company's 2012 Plan and will be available for future issuance. Payments for employee's tax obligations to the tax authorities are recognized as a reduction to additional paid-in capital and reflected as financing activities in the Company's consolidated statements of cash flows.

Stock Options

The fair value of options granted is estimated on the grant date using the Black-Scholes option valuation model. This valuation model for stock-based compensation expense requires the Company to make assumptions and judgments about the variables used in the calculation, including the expected term (weighted-average period of time that the options granted are expected to be outstanding), the volatility of the common stock price and the assumed risk-free interest rate. The Company accounts for forfeitures as they occur.

No options were granted during the years ended December 31, 2018 and 2017. The weighted average fair value of stock options granted to employees during the year ended December 31, 2016 was \$24.04. The fair values were estimated on the grant dates using the Black-Scholes option-pricing model with the following weighted-average assumptions:

	Year Ended
	December 31, 2016
Expected life (in years)	5.31 - 6.08
Volatility	45%
Risk-free interest rate	1.3% - 1.4%
Dividend yield	—%

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The estimate for expected life of options granted reflects the midpoint of the vesting term and the contractual life computed utilizing the simplified method as allowed by the SEC staff. The Company does not have significant historical share option exercise experience and hence considers the expected term assumption calculated using the simplified method to be reasonable. Starting January 1, 2016, the expected volatility of the Company's common stock is based on the Company's historical volatility. Prior to January 1, 2016, the common stock price volatility was determined based on the historical average volatilities of the common stock of a group of publicly-traded peer companies that operate in a similar industry as the Company did not have sufficient trading history for its common stock. The risk-free interest rate used was the Federal Reserve Bank's constant maturities interest rate commensurate with the expected life of the options in effect at the time of the grant. The expected dividend yield was zero, as the Company does not anticipate paying a dividend within the relevant time frame.

The Company realized no income tax benefit from stock option exercises in each of the periods presented due to recurring losses and the valuation allowances for deferred tax assets.

Stock option activity is as follows:

	Shares subject to			
	Options Outstanding			
	Weighted			
	Average			
	Weighted	Remaining		
	Average	Contractual	Aggregate	
	Number			
	of	Exercise	Term	Intrinsic
	Shares	Price	(in years)	Value
Balance at December 31, 2015	4,042	\$ 15.10	5.77	\$ 201,736
Options assumed per business acquisition	20	4.33		
Options granted	237	54.11		
Options exercised	(1,089)	11.59		
Options forfeited and canceled	(27)	43.15		
Balance at December 31, 2016	3,183	18.91	5.39	\$ 164,842
Options assumed per business acquisitions	13	20.27		
Options exercised	(1,126)	11.04		
Options forfeited and canceled	(30)	45.54		
Balance at December 31, 2017	2,040	22.88	5.17	\$ 134,511
Options exercised	(767)	12.78		

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Options forfeited and canceled	(18)	49.24		
Balance at December 31, 2018	1,255	\$ 28.67	4.77	\$ 69,224
Exercisable, December 31, 2018	1,184	\$ 27.26	4.62	\$ 66,971
Vested and expected to vest, December 31, 2018	1,255	\$ 28.67	4.77	\$ 69,224

The total intrinsic value of options exercised was \$73,057, \$82,131 and \$58,061, for the years ended December 31, 2018, 2017 and 2016, respectively. Total cash proceeds from such option exercises were \$9,802, \$12,383 and \$12,620 for the years ended December 31, 2018, 2017 and 2016, respectively.

The grant date fair value of options that vested was \$3,447, \$7,450 and \$9,106 during the years ended December 31, 2018, 2017 and 2016, respectively.

As of December 31, 2018, the Company had unrecognized stock-based compensation expense of \$2,731 related to stock options that will be recognized, over the average remaining vesting term of the options of 1.06 years.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Restricted Stock Units and Performance Stock Units

A following table summarizes the activity of RSUs and PSUs:

	RSUs and PSUs	
	Outstanding	
	Granted	Fair
	Number	Value
	of	
	Shares	Per Unit
Awarded and unvested at December 31, 2015	3,311	\$47.94
Awards granted	1,605	64.08
Awards vested	(1,116)	44.73
Awards forfeited	(335)	51.40
Awarded and unvested at December 31, 2016	3,465	56.11
Awards assumed per business acquisition	8	91.10
Awards granted	1,865	84.91
Awards vested	(1,320)	52.36
Awards forfeited	(478)	63.44
Awarded and unvested at December 31, 2017	3,540	71.77
Awards granted	3,209	101.56
Awards vested	(1,446)	69.50
Awards forfeited	(735)	93.70
Awarded and unvested at December 31, 2018	4,568	\$89.88

As of December 31, 2018, there was \$327,812 of unamortized stock-based compensation expense related to unvested RSUs, which are expected to be recognized over a weighted average period of 3.37 years.

The Company granted 474, 177 and 146 PSUs in the years ended December 31, 2018, 2017 and 2016, respectively. The PSU vesting conditions were based on individual performance targets. Unamortized stock-based compensation expense was \$40,156 as of December 31, 2018.

Stock Bonus Awards and Other Liability Awards

The total accrued liability for the stock bonus awards and other liability awards was \$12,741 and \$8,502 as of December 31, 2018 and 2017, respectively.

During the years ended December 31, 2018, 2017 and 2016, 61, 85 and 93 shares of common stock earned under the stock bonus program were issued. Stock-based compensation expense related to stock bonus program were \$12,701, \$6,616 and \$5,288, respectively, for the years ended December 31, 2018, 2017 and 2016.

In March 2015, the Company issued liability awards with a fair value of \$6,885, which vested over three years period and were subject to continuous service and other conditions. The liability awards were settled with a variable number of shares of the Company's common stock. During the years ended December 31, 2018, 2017 and 2016, 20, 29 and 45 shares were vested and issued, respectively. The Company recognized \$408, \$2,293 and \$2,229 of stock-based compensation expense related to these liability awards in the years ended December 31, 2018, 2017 and 2016. There are no outstanding liability awards as of December 31, 2018.

Employee Stock Purchase Plan

On March 30, 2012, the Board of Directors and the Company's stockholders approved the 2012 Employee Stock Purchase Plan (the "ESPP"), which became effective in April 2012. A total of 745 shares of the Company's common stock were initially reserved for future issuance under the ESPP. The number of shares reserved for issuance under the ESPP will increase automatically on January 1 of each of the first eight years commencing with 2013 by the number of shares equal to 1% of the Company's shares outstanding on the immediately preceding December 31, but not to exceed 1,490 shares, unless the Board of Directors, in its discretion, determines to make a smaller increase. As of December 31, 2018, there were 1,880 shares of the Company's common stock available for future issuance under the ESPP.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The fair value of the option component of the ESPP shares was estimated at the grant date using the Black-Scholes option pricing model with the following weighted average assumptions:

	Year ended December 31,		
	2018	2017	2016
Expected life (in years)	0.5	0.5	0.5
Volatility	33% - 40%	29% - 37%	37% - 48%
Risk-free interest rate	1.76% - 2.50%	0.76% - 1.16%	0.38% - 0.45%
Dividend yield	—%	—%	—%

The Company issued 231 shares, 183 shares and 200 shares under the ESPP in the years ended December 31, 2018, 2017 and 2016, respectively, at a weighted average exercise price per share of \$77.02, \$73.02, and \$45.65, respectively. As of December 31, 2018, the Company expects to recognize \$2,925 of the total unamortized compensation cost related to employee purchases under the ESPP over a weighted average period of 0.37 years.

Restricted Stock and Deferred Shares

As part of the FireLayers acquisition, the Company granted 111 shares of restricted stock in 2016 to certain key employees with a total fair value of \$8,669 with annual vesting term of three years. The Company recognized \$2,887, \$2,887 and \$546 of stock-based compensation expense in 2018, 2017 and 2016, respectively. As of December 31, 2018, there was \$2,349 of unamortized stock-based compensation expense related to the unvested shares of restricted stock. The shares of restricted stock are subject to forfeiture if employment terminates prior to the lapse of the restrictions, and are expensed over the vesting period. They are considered issued and outstanding shares of the Company at the grant date and have the same rights as other shares of common stock.

As part of the Weblife acquisition, 107 shares were deferred for certain key employees with the total fair value of \$9,652, and a vesting period between three and four years. The Company recognized \$2,415 and \$205 of stock-based compensation in the years ended December 31, 2018 and 2017, respectively. As of December 31, 2018, there was \$7,032 of unamortized stock-based compensation expense related to the unvested deferred shares. The deferred shares are subject to forfeiture if employment terminates prior to the lapse of the deferral date, and are expensed over the vesting period.

As part of the Wombat acquisition, 51 shares were deferred for certain key employees with the total fair value of \$5,458, and a vesting period of two years. The Company recognized \$2,288 of stock-based compensation in the year ended December 31, 2018. As of December 31, 2018, there was \$3,170 of unamortized stock-based compensation expense related to the unvested deferred shares. The deferred shares are subject to forfeiture if employment terminates prior to the lapse of the deferral date, and are expensed over the vesting period.

11. Net Loss per Share

Basic net loss per share of common stock is calculated by dividing the net loss by the weighted average number of shares of common stock outstanding for the period. The weighted average number of shares of common stock used to calculate basic net loss per share of common stock excludes those shares subject to repurchase related to stock options or restricted stock that were exercised or issued prior to vesting as these shares are not deemed to be issued for accounting purposes until they vest. Diluted net loss per share of common stock is computed by dividing the net loss using the weighted average number of shares of common stock, excluding common stock subject to repurchase, and, if dilutive, potential shares of common stock outstanding during the period. Basic and diluted net loss per common share was the same for all periods presented as the impact of all potentially dilutive securities outstanding was anti-dilutive.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The following table presents the potentially dilutive common shares outstanding that were excluded from the computation of diluted net loss per share of common stock for the periods presented because including them would have been anti-dilutive:

	December 31,		
	2018	2017	2016
Stock options to purchase common stock	1,255	2,040	3,183
Restricted stock units	4,568	3,540	3,465
Employee stock purchase plan	163	118	92
Common stock subject to repurchase	195	90	135
Stock bonus awards and other liability awards	152	98	159
1.25% Convertible senior notes	—	—	5,158
0.75% Convertible senior notes	—	2,831	2,831
Total	6,333	8,717	15,023

12. Segment Reporting

Operating segments are reported in a manner consistent with the internal reporting supported and defined by the components of an enterprise about which separate financial information is available, provided and is evaluated regularly by the chief operating decision maker in deciding how to allocate resources and in assessing performance. The Company's chief operating decision maker is its Chief Executive Officer. The Company's Chief Executive Officer reviews financial information presented on a consolidated basis. The Company has one business activity, and there are no segment managers who are held accountable for operations, operating results and plans for levels or components below the consolidated unit level. Accordingly, the Company determined that it has one operating and reportable segment.

The following sets forth total revenue by solutions offered by the Company and by geographic area. Revenue by geographic area is based upon the billing address of the customer:

	Year Ended December 31,		
	2018	2017	2016
Total revenue by solution:			
Advanced Threat	\$538,141	\$381,565	\$262,777
Compliance	178,853	138,116	115,560
Total revenue	\$716,994	\$519,681	\$378,337

Year Ended December 31,

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	2018	2017	2016
Total revenue by geographic area:			
United States	\$584,294	\$432,564	\$314,777
Rest of world	132,700	87,117	63,560
Total revenue	\$716,994	\$519,681	\$378,337

The following sets forth long-lived tangible assets by geographic area:

	December 31,	
	2018	2017
Long-lived assets:		
United States	\$57,682	\$66,134
Rest of world	12,945	7,483
Total long-lived assets	\$70,627	\$73,617

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

13. Income Taxes

The domestic and foreign components of loss before income taxes were as follows for the years ended December 31, 2018, 2017 and 2016:

	Year Ended December 31,		
	2018	2017	2016
Domestic	\$(126,128)	\$(110,192)	\$(98,183)
Foreign	9,147	30,440	2,682
Loss before income taxes	\$(116,981)	\$(79,752)	\$(95,501)

The (provision for) benefit from income taxes is comprised of:

	Year Ended December 31,		
	2018	2017	2016
Current tax expense:			
Federal	\$—	\$—	\$—
State	258	80	72
Foreign	1,768	5,923	795
Total current	2,026	6,003	867
Deferred tax expense:			
Federal	(12,773)	(12,268)	411
State	(1,812)	(266)	—
Foreign	(673)	(3,419)	(292)
Total deferred	(15,258)	(15,953)	119
(Benefit from) provision for income taxes	\$(13,232)	\$(9,950)	\$986

As the result of adopting ASU 2016-09, the Company recorded excess tax benefits on a prospective basis starting January 1, 2017, resulting in a cumulative-effect adjustment recorded in consolidated statements of stockholders' equity in 2017. The reconciliation of income tax expense (benefit) to the income tax provision (benefit) included in the consolidated statements of operations at the statutory federal income tax rate of 21% for the year ended December 31, 2018, and 34% for the years ended December 31, 2017 and 2016 is as follows:

Year Ended December 31,		
2018	2017	2016

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Tax at federal statutory rate	\$(24,566)	\$(27,116)	\$(32,470)
Foreign income tax rate differential	307	(3,076)	(187)
State, net of federal benefit	(3,859)	(2,942)	(2,999)
Stock compensation charges	(20,341)	(32,150)	3,517
SubPart F and other permanent items	1,597	2,155	1,422
Section 162m	5,501	601	—
Provision to return and other	(1,082)	2,480	1,417
Research and development credits	(11,165)	(7,713)	(4,464)
Uncertain tax positions	2,171	5,888	749
Impact of Tax Act and other tax law changes	—	85,606	—
Valuation allowance	38,205	(33,683)	34,001
(Benefit from) provision for income taxes	\$(13,232)	\$(9,950)	\$986

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

Deferred tax assets and liabilities reflect the net tax effects of net operating loss and tax credit carryovers and the temporary differences between the carrying amount of assets and liabilities for financial reporting and the amounts used for income tax purposes. Significant components of the Company's deferred tax assets were as follows:

	At December 31,	
	2018	2017
Deferred tax assets:		
Net operating loss carryforwards	\$192,508	\$158,535
Tax credit carryforwards	33,799	24,700
Research expenditures	577	859
Deferred revenue	17,716	11,552
Stock compensation	16,861	14,842
Fixed assets	313	274
Accruals and other	12,619	10,106
Gross deferred tax assets	274,393	220,868
Valuation allowance	(222,734)	(181,213)
Total deferred tax assets	51,659	39,655
Deferred tax liabilities:		
Intangible assets and other	(23,282)	(12,087)
Deferred commissions	(26,008)	(18,701)
Convertible senior notes	—	(6,857)
Total deferred tax liabilities	(49,290)	(37,645)
Total net deferred tax assets (liabilities)	\$2,369	\$2,010
Non-current deferred income tax assets (included in other long-term assets)	\$2,946	\$2,543
Non-current deferred income tax liabilities (included in long-term liabilities)	\$577	\$533

The Company records net deferred tax assets to the extent that Company believes these assets will more likely than not be realized. In making such determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax planning strategies and recent financial operations.

Realization of deferred tax assets is dependent upon future earnings, if any, the timing and amount of which are uncertain. The valuation allowance increased by \$41,521, \$50,056 and \$34,005 during the years ended December 31, 2018, 2017 and 2016, respectively. The change in valuation allowance for the year ended December 31, 2018, included an increase of \$3,392 related to the 0.75% Notes conversion. The change in valuation allowance for the year ended December 31, 2017, includes an increase of \$79,336 related to the prospective adoption of ASU 2016-09, an increase of \$2,554 related to 2013 convertible notes conversion, and an increase of \$1,525 related to the Cloudmark acquisition.

During the three months ended March 31, 2017, the Company transferred certain intellectual property rights from its wholly owned subsidiary in Israel to the United States. Although the transfer of intellectual property rights between consolidated entities did not result in any gain in the consolidated statements of operations, the transfer did result in a taxable gain in Israel. In the Company's financial statements ending before January 1, 2018, taxes incurred related to the intercompany transaction have been treated as a prepaid tax asset in the Company's consolidated balance sheet and were being amortized to income tax expense over the life of the intellectual property. Effective January 1, 2018, pursuant to the Company's modified retrospective adoption of ASU 2016-16, the Company's remaining prepaid tax asset of \$3,216 was recorded as an increase to accumulated deficit.

In December 22, 2017, the U.S. government enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "Tax Act"). The Tax Act significantly impacts the future ongoing U.S. corporate income tax by, among things, lowering the U.S. corporate income tax rates from 34% to 21%, providing for unlimited net operating loss carry-forward periods, and implementing a territorial tax system. The reduction of the U.S. corporate tax rate required the Company to revalue its U.S. deferred tax assets and liabilities during fiscal 2017

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

to the newly enacted federal rate of 21%. This transitional impact resulted in a provisional deferred tax benefit of \$2,024 in the year ended December 31, 2017 related to a reduction in a US deferred tax liability on certain long-lived acquired intangibles. This transitional impact also resulted in a \$87,621 provisional reduction of certain of the Company's US deferred tax assets which are offset by a full valuation allowance.

As of December 31, 2018, the amounts recorded for the Tax Act no longer remain provisional as the Company completed its accounting for the effect of the 2017 Tax Act within the measurement period under the SEC guidance. However, the amounts recorded for the repatriation tax, the remeasurement of deferred taxes, and the Company's reassessment of permanently reinvested earnings, uncertain tax positions and valuation allowances may be impacted by future clarification and guidance regarding available tax accounting methods and elections, earnings and profits computations, state tax conformity to federal tax changes, among others.

During the year ended December 31, 2018, the Company recorded a deferred tax benefit of \$14,725 related to changes in the Company's valuation allowance resulting from the Wombat business acquisition. During the year ended December 31, 2017, the Company recorded a deferred tax benefit of \$7,904 and \$4,440 related to changes in the Company's US valuation allowances as a result of the Cloudmark and WebLife acquisitions, respectively.

As of December 31, 2018 and 2017, the Company had net operating loss carry-forwards for federal income tax purposes of \$797,569 and \$659,587, respectively. The federal net operating losses generated prior to tax year beginning in 2018 and which are subject to expiration will expire between 2019 and 2037. As of December 31, 2018 and 2017, the Company had federal research credit carry-forwards of \$24,556 and \$16,122 respectively. The federal research and development credits will begin to expire in 2022.

As of December 31, 2018 and 2017, the Company had net operating loss carry-forwards for state income tax purposes of approximately \$396,665 and \$323,013, respectively. The state net operating losses will continue to expire between 2019 and 2038. As of December 31, 2018 and 2017, the Company had research and development credit carry-forwards for state income tax purpose of \$22,987 and \$18,362, respectively. The state research and development credits have no expiration period.

As of December 31, 2018, the Company had no net operating losses carry-forwards in non-U.S. locations. As of December 31, 2018 and 2017, the Company had research and development credit carry-forwards in its non-U.S. locations of approximately \$2,426 and \$2,375, respectively. The non-U.S. research and development credits will begin to expire in 2031.

Utilization of the federal and state net operating losses may be subject to substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code and similar state provisions. Analyses have been conducted to determine whether an ownership change had occurred since inception. The analyses have indicated that although ownership changes have occurred in prior years, the net operating losses and research and development credits would not expire before utilization as a result of the ownership change. In the event the Company has subsequent changes in ownership, net operating losses and research and development credit carryovers could be limited and may expire unutilized as a result of the subsequent ownership change.

The Company recognizes interest and penalties related to uncertain tax positions within the income tax expense line in the consolidated statements of operations. Accrued interest and penalties are included within the related tax liability line in the consolidated balance sheets. During the year ended December 31, 2018, the Company reduced income tax benefit by \$21 from interest and penalties related to tax contingencies and has \$309 of interest and penalties recorded as a long-term income tax liability as of December 31, 2018. During the year ended December 31, 2017, the Company reduced income tax benefit by \$90 from interest and penalties related to tax contingencies and had \$288 of interest and penalties recorded as a long-term income tax liability.

As of December 31, 2018, the Company had recorded unrecognized tax benefits of \$4,616 that if recognized, would benefit the Company's effective tax rate. As of December 31, 2017, the Company had recorded unrecognized tax benefits of \$4,700 that, if recognized, would benefit the Company's effective tax rate.

Proofpoint, Inc.

Notes to Consolidated Financial Statements (Continued)

(dollars and share amounts in thousands, except per share amounts)

The Company is currently under audit by the Israel Tax Authority for tax years 2013 through 2017. Related to the audit by the Israel Tax Authority it is reasonably possible that the Company's uncertain tax positions could change within the next 12 months. An estimate of the range of any change cannot be made. The Company believes it has recorded all appropriate provisions for all jurisdictions and open years. However, the Company can give no assurance that taxing authorities will not propose adjustments that would increase its tax liabilities. The Company is not currently under audit by the IRS or any similar taxing authority in any other material jurisdiction.

Because of net operating loss and credit carry-forwards, all of the Company's tax years dating to inception in 2002 remain open to tax examination in U.S. and certain state tax jurisdictions. For other major non-U.S. jurisdictions, tax years from 2011 to present remain open to tax examination. The Company is not currently under audit in any material jurisdictions.

The aggregate changes in the balance of gross unrecognized tax benefits were as follows:

Balance as of December 31, 2015	\$4,820
Increase in balances related to tax positions taken during the current period	1,262
Increase in balances related to tax positions taken during the prior period	20
Decrease in balances related to tax positions taken during the prior period	(17)
Decrease in balances related to statute expirations during the current period	(239)
Balance as of December 31, 2016	5,846
Increase in balances related to tax positions taken during the current period	8,160
Increase in balances related to tax positions taken during the prior period	45
Decrease in balances related to tax positions taken during the prior period	(2)
Decrease in balances related to statute expirations during the current period	(188)
Balance as of December 31, 2017	13,861
Increase in balances related to tax positions taken during the current period	2,692
Increase in balances related to tax positions taken during the prior period	217
Decrease in balances related to tax positions taken during the prior period	—
Decrease in balances related to statute expirations during the current period	(316)
Balance as of December 31, 2018	\$16,454

As part of the transition to the new territorial tax system, the Act imposed a one-time repatriation tax on deemed repatriation of historical earnings of foreign subsidiaries. Based on the evaluation of the Company's operations, no repatriation tax charge was owed due to negative earnings and profits in the Company's foreign operations.

EXHIBIT INDEX

Exhibit No.	Exhibit Title	Incorporated by Reference			Exhibit No.
		Form	File No.	Filing Date	
3.01	<u>Amended and Restated Certificate of Incorporation of the Registrant.</u>	S-1A	333-178479	April 9, 2012	3.02
3.02	<u>Amended and Restated Bylaws of the Registrant.</u>	8-K	001-35506	February 20, 2019	3.1
4.01	<u>Form of Registrant's common stock certificate.</u>	S-1A	333-178479	April 9, 2012	4.01
10.01	<u>Form of Indemnity Agreement.</u>	10-Q	001-35506	October 31, 2017	10.01
10.02	† <u>2002 Stock Option/Stock Issuance Plan and form of option grant.</u>	S-1A	333-178479	April 9, 2012	10.02
10.03	† <u>2012 Equity Incentive Plan and form of grant agreements.</u>	S-1A	333-178479	April 9, 2012	10.03
10.04	† <u>2012 Employee Stock Purchase Plan.</u>	S-1A	333-178479	April 9, 2012	10.04
10.05	† <u>Corporate Bonus Program.</u>	10-K	001-35506	February 26, 2015	10.05
10.06	<u>Lease Agreement between Registrant and Hines VAF No Cal Properties, L.P., dated as of March 28, 2011, as amended July 28, 2011.</u>	S-1	333-178479	December 14, 2011	10.05
10.07	<u>Lease between the Registrant and Pathline LLC, dated October 23, 2018</u>	8-K	001-35506	October 25, 2018	10.1
10.08	† <u>Offer Letter to Gary Steele from the Registrant, dated November 17, 2002.</u>	S-1	333-178479	December 14, 2011	10.07
10.09	† <u>Offer Letter to Paul Auvil from the Registrant, dated March 9, 2007.</u>	S-1A	333-178479	January 25, 2012	10.08
10.10	† <u>Offer Letter to David Knight from the Registrant, dated March 14, 2011.</u>	S-1A	333-178479	January 25, 2012	10.11
10.11	†* <u>Offer Letter to Blake Salle from the Registrant, dated October 24, 2018.</u>				
10.12	† <u>Offer Letter to Bhagwat Swaroop from Registrant, dated April 27, 2016.</u>	10-K	001-35506	February 23, 2017	10.12
10.13	† <u>Offer Letter to Klaus Oestermann from the Registrant, dated July 6, 2018.</u>	8-K	001-35506	July 9, 2018	10.01
10.14	†* <u>Separation Agreement between Klaus Oestermann and the Registrant, dated October 24, 2018</u>				
21.01	* <u>Subsidiaries of Registrant.</u>				
23.01	* <u>Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm.</u>				
31.01	* <u>Certification of Chief Executive Officer Pursuant to Rule 13-a-14 of the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>				
31.02	* <u>Certification of Chief Financial Officer Pursuant to Rule 13-a-14 of the Securities Exchange Act of 1934, as Adopted Pursuant to</u>				

Section 302 of the Sarbanes-Oxley Act of 2002.

32.01 ******Certification of Chief Executive Officer Pursuant to 18 U.S.C. Section 1350 as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

32.02 ******Certification of Chief Financial Officer Pursuant to 18 U.S.C. Section 1350 as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

101.INS ******XBRL Instance Document

101.SCH ******XBRL Taxonomy Extension Schema Document

101.CAL ******XBRL Taxonomy Extension Calculation Linkbase Document

101.DEF ******XBRL Taxonomy Extension Definition Linkbase Document

101.LAB ******XBRL Taxonomy Extension Label Linkbase Document

101.PRE ******XBRL Taxonomy Extension Presentation Linkbase Document

† Indicates a management contract or compensatory plan.

* Filed herewith

******These exhibits are furnished with this Annual Report on Form 10-K and are not deemed filed with the Securities and Exchange Commission and are not incorporated by reference in any filing of Proofpoint, Inc. under the Securities Act of 1933 or the Exchange Act of 1934, whether made before or after the date hereof and irrespective of any general incorporation language in such filings.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Company has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on February 21, 2019.

PROOFPOINT, INC.

By: /s/ GARY STEELE
Gary Steele

Chief Executive Officer

POWER OF ATTORNEY

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

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

Name	Title	Date
/s/ Gary Steele Gary Steele	Chief Executive Officer (Principal Executive Officer)	February 21, 2019
/s/ Paul Auvil Paul Auvil	Chief Financial Officer (Principal Financial Officer and Principal Accounting officer)	February 21, 2019
/s/ Dana Evan Dana Evan	Director	February 21, 2019
/s/ Jonathan Feiber Jonathan Feiber	Director	February 21, 2019
/s/ Kristen Gil Kristen Gil	Director	February 21, 2019
/s/ Kevin Harvey Kevin Harvey	Director	February 21, 2019
/s/ R. Scott Herren R. Scott Herren	Director	February 21, 2019
/s/ Michael Johnson Michael Johnson	Director	February 21, 2019
/s/ Richard Wallace Richard Wallace	Director	February 21, 2019

