
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2016

OR

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

Commission File Number: 001-37885

Apptio, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)
11100 NE 8th Street, Suite 600
Bellevue, WA
(Address of principal executive offices)

26-1175252
(I.R.S. Employer
Identification No.)

98004
(Zip Code)

Registrant's telephone number, including area code: (866) 470-0320

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

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

Large accelerated filer Accelerated filer
Non-accelerated filer (Do not check if a small reporting company) Small reporting company

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

As of October 31, 2016, 6,900,000 shares of the registrant's Class A common stock and 31,411,927 shares of the registrant's Class B common stock were outstanding, respectively.

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PART I—FINANCIAL INFORMATION

Item 1. Financial Statements.

Apptio, Inc.
Condensed Consolidated Balance Sheets
(In thousands)
(Unaudited)

	September 30, 2016	December 31, 2015
Assets		
Current assets		
Cash and cash equivalents	\$ 111,712	\$ 17,256
Short-term investments	10,818	6,260
Accounts receivable, net of allowance for doubtful accounts of \$215 and \$289	42,585	52,887
Prepaid expenses and other current assets	5,249	3,990
Total current assets	170,364	80,393
Long-term assets		
Property and equipment, net of accumulated depreciation of \$15,703 and \$12,774	13,058	13,487
Restricted cash	—	2,500
Deferred initial public offering costs	—	1,973
Other long-term assets	616	798
Total assets	<u>\$ 184,038</u>	<u>\$ 99,151</u>
Liabilities, Convertible Preferred Stock and Stockholders' Equity (Deficit)		
Current liabilities		
Accounts payable	\$ 6,375	\$ 3,462
Accrued payroll and other expenses	12,456	14,732
Deferred revenue	81,415	82,422
Deferred rent	784	613
Capital leases	42	42
Total current liabilities	101,072	101,271
Long-term liabilities		
Deferred revenue, net of current portion	2,346	803
Deferred rent, net of current portion	4,540	4,810
Capital leases, net of current portion	62	95
Preferred stock warrant liability	—	414
Asset retirement obligation	184	210
Total liabilities	108,204	107,603
Commitments and contingencies (Note 9)		
Convertible preferred stock	—	133,809
Stockholders' equity (deficit)		
Class A and Class B Common stock	4	1
Additional paid-in capital	268,240	26,509
Accumulated other comprehensive loss	(3)	—
Accumulated deficit	(192,407)	(168,771)
Total stockholders' equity (deficit)	75,834	(142,261)
Total liabilities, convertible preferred stock and stockholders' equity (deficit)	<u>\$ 184,038</u>	<u>\$ 99,151</u>

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

Apptio, Inc.
Condensed Consolidated Statements of Operations
(In thousands, except per share amounts)
(Unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Revenue				
Subscription	\$ 33,314	\$ 25,594	\$ 94,995	\$ 72,836
Professional services	7,313	6,660	21,254	21,573
Total revenue	<u>40,627</u>	<u>32,254</u>	<u>116,249</u>	<u>94,409</u>
Cost of revenue				
Subscription	6,921	6,173	19,960	17,315
Professional services	7,068	6,684	19,780	19,720
Total cost of revenue	<u>13,989</u>	<u>12,857</u>	<u>39,740</u>	<u>37,035</u>
Gross profit	<u>26,638</u>	<u>19,397</u>	<u>76,509</u>	<u>57,374</u>
Operating expenses				
Research and development	9,015	7,928	26,072	22,602
Sales and marketing	18,300	15,855	54,256	49,129
General and administrative	6,285	5,023	16,969	12,721
Total operating expenses	<u>33,600</u>	<u>28,806</u>	<u>97,297</u>	<u>84,452</u>
Loss from operations	(6,962)	(9,409)	(20,788)	(27,078)
Other income (expense)				
Interest (expense) income and other, net	(1,312)	(18)	(1,746)	1
Foreign exchange loss	(367)	(351)	(774)	(958)
Loss before provision for income taxes	(8,641)	(9,778)	(23,308)	(28,035)
Provision for income taxes	(114)	(87)	(328)	(236)
Net loss	<u>\$ (8,755)</u>	<u>\$ (9,865)</u>	<u>\$ (23,636)</u>	<u>\$ (28,271)</u>
Net loss per share attributable to common stockholders, basic and diluted	<u>\$ (0.63)</u>	<u>\$ (0.77)</u>	<u>\$ (1.78)</u>	<u>\$ (2.25)</u>
Weighted-average shares used to compute net loss per share attributable to common stockholders, basic and diluted	<u>13,884</u>	<u>12,754</u>	<u>13,307</u>	<u>12,575</u>

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

Apprio, Inc.
Condensed Consolidated Statements of Comprehensive Loss
(In thousands)
(Unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Net loss	\$ (8,755)	\$ (9,865)	\$ (23,636)	\$ (28,271)
Other comprehensive loss				
Unrealized (loss) gain on available-for-sale securities	(3)	4	(3)	2
Total comprehensive loss	<u>\$ (8,758)</u>	<u>\$ (9,861)</u>	<u>\$ (23,639)</u>	<u>\$ (28,269)</u>

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

Apptio, Inc.
Condensed Consolidated Statements of Cash Flows
(In thousands)
(Unaudited)

	Nine Months Ended September 30,	
	2016	2015
Cash flows from operating activities		
Net loss	\$ (23,636)	\$ (28,271)
Adjustments to reconcile net loss to net cash used in operating activities		
Depreciation and amortization	4,487	4,916
Amortization of premiums on investments	20	67
Loss (gain) on disposal of property and equipment	26	(12)
Stock-based compensation	6,902	5,877
Accretion of capitalized loan fees	127	39
Loss on extinguishment of debt	722	—
Remeasurement of preferred stock warrant liability	202	57
Change in operating assets and liabilities		
Accounts receivable	10,302	14,689
Prepaid expenses and other assets	(660)	(2,167)
Accounts payable	1,648	812
Accrued expenses	(2,442)	(2,199)
Deferred revenue	535	(2,959)
Deferred rent	(421)	391
Net cash used in operating activities	<u>(2,188)</u>	<u>(8,760)</u>
Cash flows from investing activities		
Purchases of property and equipment	(3,518)	(6,636)
Proceeds from maturities of investments	6,245	13,309
Purchases of investments	(10,826)	(2,017)
(Payment) return of security deposits	(43)	157
Return of restricted cash	2,500	85
Net cash (used in) provided by investing activities	<u>(5,642)</u>	<u>4,898</u>
Cash flows from financing activities		
Proceeds from initial public offering, net of underwriting discounts	102,672	—
Payment of deferred initial public offering costs	(574)	(418)
Proceeds from long-term debt	20,000	—
Principal payments on long-term debt	(20,000)	—
Payment of debt prepayment fees	(200)	—
Proceeds from exercise of common stock options	1,000	2,335
Principal payments on capital lease obligations	(33)	(36)
Payment of capitalized loan fees	(248)	(78)
Net cash provided by financing activities	<u>102,617</u>	<u>1,803</u>
Foreign currency effect on cash and cash equivalents	(331)	(77)
Net increase (decrease) in cash and cash equivalents	94,456	(2,136)
Cash and cash equivalents		
Beginning of year	17,256	19,686
End of year	<u>\$ 111,712</u>	<u>\$ 17,550</u>
Supplemental disclosures		
Purchases under capital lease obligations	\$ —	\$ 102
Property and equipment additions in accounts payable and accrued expenses	419	37
Leasehold improvements paid directly by lessor	356	—
Non-cash debt issuance costs	285	90
Deferred initial public offering cost accruals	1,004	1,163
Non-cash preferred stock warrant exercise	616	—

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

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements

Note 1. Description of Operations and Summary of Significant Accounting Policies

Operations

Apptio, Inc. or the Company, was incorporated on October 2, 2007 and is headquartered in Bellevue, Washington. The Company develops and sells Technology Business Management, or TBM, solutions. The Company's cloud-based platform and SaaS applications enable IT leaders to analyze, optimize and plan technology investments, and benchmark their financial and operational performance against peers. The Company operates in the United States, the United Kingdom, Germany, Denmark, the Netherlands, Australia, Canada, France and Singapore.

Initial Public Offering

In September 2016, the Company completed an initial public offering, or IPO, in which the Company sold 6,900,000 shares of its newly-authorized Class A common stock at the initial price to public of \$16.00 per share. The Company received net proceeds of \$99.1 million, after deducting underwriting discounts and commissions and offering expenses paid and payable by the Company, from sales of its shares in the IPO. Immediately prior to the completion of the IPO, (1) all shares of common stock then outstanding were converted to Class B common stock on a one-for-one basis, (2) common stock warrants then outstanding were converted to warrants to purchase shares of Class B common stock on a one-for-one basis, (3) a warrant to purchase shares of convertible preferred stock was converted to a warrant to purchase shares of Class B common stock, and (4) all shares of convertible preferred stock then outstanding were converted into shares of the Company's common stock on a one-for-one basis, and then reclassified as shares of Class B common stock. See Note 5 for further discussion of Class A and B common stock.

As of September 30, 2016, 6,900,000 shares of the Company's Class A common stock and 31,398,491 shares of the Company's Class B common stock were outstanding.

Deferred Offering Costs

Deferred offering costs of \$3.6 million, consisting of legal, accounting and other fees and costs related to the IPO, were reclassified to additional paid-in capital as a reduction of the proceeds upon the closing of our IPO on September 28, 2016.

Basis of Presentation

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America, or GAAP, and applicable rules and regulations of the Securities and Exchange Commission, or SEC, regarding interim financial reporting. Certain information and note disclosures normally included in the financial statements prepared in accordance with GAAP have been condensed or omitted pursuant to such rules and regulations. Therefore, these condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and notes included in the final prospectus filed with the SEC pursuant to Rule 424(b) under the Securities Act of 1933, as amended, on September 23, 2016, or the Prospectus. The condensed consolidated balance sheet as of December 31, 2015, included herein, was derived from the audited annual financial statements as of that date, but does not include all disclosures including certain notes required by GAAP on an annual reporting basis.

In the opinion of management, the accompanying unaudited condensed consolidated financial statements reflect all normal recurring adjustments necessary to fairly state the financial position, results of operations, comprehensive loss and cash flows for the interim periods, but are not necessarily indicative of the results of operations to be anticipated for the full year 2016 or any future period.

Principles of Consolidation

The condensed consolidated financial statements include the Company and its wholly-owned subsidiaries. All significant intercompany balances and transactions have been eliminated.

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 the disclosure of contingent assets and liabilities at the date of

Aptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

the consolidated financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ materially from those estimates.

Certain Significant Risks and Uncertainties

The Company continues to be subject to the risks and challenges associated with other companies at a similar stage of development, including risks associated with: dependence on key personnel; successful marketing and sale of its solutions and adaptation of such solutions to changing market dynamics and customer preferences; competition from alternative products and services, including from larger companies that have greater name recognition, longer operating histories, more and better established customer relationships and greater resources than the Company; and the ability to raise additional capital to support future growth. Since inception through September 30, 2016, the Company has incurred losses from operations, and accumulated a deficit of \$192.4 million, and has been dependent on equity and debt financing to fund operations.

Significant Accounting Policies

There have been no material changes to our significant accounting policies and estimates as previously disclosed in the Prospectus.

Recently Adopted Accounting Pronouncements

In August 2016, the Financial Accounting Standards Board, or FASB, issued Accounting Standards Update, or ASU, No. 2016-15, *Classification of Certain Cash Receipts and Cash Payments*. ASU 2016-15 is intended to add or clarify guidance on the classification of certain cash receipts and payments in the statement of cash flows and to eliminate the diversity in practice related to such classifications. The guidance in ASU 2016-15 is required for annual reporting periods beginning after December 15, 2018, which represents the delayed adoption date applicable to private companies available to us pursuant to the Jump-start Our Business Start-ups Act, or the JOBS Act, with early adoption permitted. The Company early adopted this standard in the third quarter of 2016. The adoption of this standard resulted in the Company classifying \$0.2 million of debt prepayment fees incurred on the early extinguishment of debt within financing activities on the condensed consolidated statements of cash flows for the nine months ended September 30, 2016. There was no impact on any prior periods.

In November 2015, the FASB issued ASU 2015-17, *Balance Sheet Classification of Deferred Taxes*, which requires deferred tax assets and liabilities, along with related valuation allowances, to be classified as non-current on the balance sheet. For public entities, the new standard is effective for fiscal years beginning after December 15, 2016, with early adoption permitted. For all other entities, the new standard is effective for fiscal years beginning after December 15, 2017, and interim periods within annual periods beginning after December 15, 2018. The Company early adopted this new standard retrospectively in the fourth quarter of 2015. The adoption of this new standard did not have a material impact on the Company's financial statements.

New Accounting Pronouncements Not Yet Adopted

In March 2016, the FASB issued ASU 2016-09, *Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*, which simplifies several aspects of the accounting for employee share-based payment transactions, including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the statement of cash flows. For public entities, ASU 2016-09 is effective for fiscal years beginning after December 15, 2016, including interim periods within those fiscal years. For all other entities, the guidance is effective for fiscal years beginning after December 15, 2017, and interim periods within those annual periods beginning after December 15, 2018. The Company is currently evaluating the impact this guidance will have on the Company's financial statements.

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*. The objective of the update is to improve financial reporting by increasing transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. For public entities, the new standard is effective for interim and annual reporting periods beginning after December 15, 2018. For all other entities, the new standard is effective for annual reporting periods beginning after December 15, 2019, and for interim periods within those annual periods beginning after December 15, 2020. Early application of the amendments is permitted for all entities. The Company is currently evaluating the impact this guidance will have on the Company's financial statements.

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

In May 2014, the FASB issued ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*, outlining a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers that supersedes most current revenue recognition guidance. This guidance requires an entity to recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. Additionally, this guidance expands related disclosure requirements. In August 2015, the FASB issued ASU 2015-14, *Revenue from Contracts with Customers (Topic 606): Deferral of the Effective Date*, which delayed the effective date of ASU No. 2014-09 by one year and is allowing earlier adoption; however, entities reporting under GAAP are not permitted to adopt the standard earlier than the original effective date for public entities. For public entities, the new standard is effective for annual periods and interim periods within those annual periods, beginning after December 15, 2017. For all other entities, the new standard is effective for annual periods beginning after December 15, 2018, and interim periods within those annual periods beginning after December 15, 2019. The new standard will require full or modified retrospective application. In March 2016, the FASB issued ASU 2016-08, *Revenue from Contracts with Customers (Topic 606): Principal versus Agent Considerations (Reporting Revenue Gross versus Net)*, which is intended to improve the operability and understandability of the implementation guidance on principal versus agent considerations. The effective date for ASU 2016-08 is the same as the effective date for ASU 2014-09. In April 2016, the FASB issued ASU 2016-10, *Revenue from Contracts with Customers (Topic 606): Identifying Performance Obligations and Licensing*, which clarifies the implementation guidance on identifying performance obligations and licensing. The effective date for ASU 2016-10 is the same as the effective date for ASU 2014-09. In May 2016, the FASB issued ASU 2016-12, *Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients*, which clarifies the implementation guidance on collectability, noncash consideration, presentation of sales tax and transition. The Company is currently evaluating the impact this guidance will have on the Company's financial statements as well as the expected adoption method and timing.

In August 2014, the FASB issued ASU No. 2014-15, *Presentation of Financial Statements – Going Concern (Subtopic 205-40)*, related to the disclosures around going concern. The new standard provides guidance around management's responsibility to evaluate whether there is substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. The new standard is effective for fiscal years ending after December 15, 2016, with early adoption permitted. The adoption of this standard is not expected to have a material impact on the Company's financial statements.

Note 2. Fair Value Measurements

The following tables present information about the Company's financial assets and liabilities that have been measured at fair value as of September 30, 2016 and December 31, 2015, and indicates the fair value hierarchy of the valuation inputs utilized to determine such fair value (in thousands):

	As of September 30, 2016			
	Level 1	Level 2	Level 3	Total
Money market funds	\$ 82,485	\$ —	\$ —	\$ 82,485
Corporate notes and obligations	—	8,418	—	8,418
U.S. agency securities	—	2,400	—	2,400
	<u>\$ 82,485</u>	<u>\$ 10,818</u>	<u>\$ —</u>	<u>\$ 93,303</u>
	As of December 31, 2015			
	Level 1	Level 2	Level 3	Total
Money market funds	\$ 8,015	\$ —	\$ —	\$ 8,015
Corporate notes and obligations	—	2,245	—	2,245
U.S. agency securities	—	3,015	—	3,015
U.S. government treasury securities	1,000	—	—	1,000
Preferred stock warrant liability	—	—	(414)	(414)
	<u>\$ 9,015</u>	<u>\$ 5,260</u>	<u>\$ (414)</u>	<u>\$ 13,861</u>

At September 30, 2016 and December 31, 2015, the Company utilized the market approach to value its money market mutual funds and U.S. government treasury securities using Level 1 valuation inputs because published net asset values were readily available. The Company's Level 2 marketable securities are valued using the market approach based on broker or dealer quotations, actual trade data, recent observable transaction information for similar securities, benchmark yields or alternative pricing sources

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

with reasonable levels of price transparency, and include the Company's investments in U.S. government agency securities and corporate notes and obligations.

The Company's preferred stock warrants are categorized as Level 3 because they were valued based on unobservable inputs and management's judgment due to the absence of quoted mark prices, inherent lack of liquidity and the long-term nature of such financial instruments. The Company engaged a third party to perform a fair value assessment of the preferred stock warrant inputs on a quarterly basis using a hybrid allocation methodology. The following allocation methodologies were used: the Black-Scholes option pricing model, the Probability-Weighted Expected Return Method, or PWERM, and secondary transactions. In determining the inputs, the results of the various allocation methodologies are weighted based on multiple factors, including management's expectations on various exit outcomes and the similarities between the Company and its comparable companies in areas such as overall business model, level of revenue, market share, maturity of business and other metrics. The assumptions used in the hybrid allocation methodology are inherently subjective and involve significant judgment. Any change in fair value is recognized as interest expense and is included in interest (expense) income and other, net in the condensed consolidated statements of operations. Immediately prior to completion of the IPO, the preferred stock warrant to purchase shares of convertible preferred stock was converted to a warrant to purchase Class B common stock. The warrant was exercised on September 23, 2016. See Note 4 for additional information.

The following table presents a reconciliation of the preferred stock warrant liability measured at fair value using significant unobservable inputs (in thousands):

Balance as of December 31, 2015	\$ 414
Changes in fair value of underlying warrant securities, recorded to interest expense	202
Conversion of warrant, recorded to additional paid-in capital	(616)
Balance as of September 30, 2016	<u>\$ —</u>

Note 3. Investments

Available-for-sale investments consist of fixed-income securities that are accounted for at fair value. Premiums and discounts paid on securities at the time of purchase are recorded as accrued interest and amortized over the period of maturity. The amortized cost and fair value on the available-for-sale investments and unrealized gains and losses as of September 30, 2016 and December 31, 2015 were as follows (in thousands):

	As of September 30, 2016			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Amounts maturing in one year or less				
Corporate notes and obligations	\$ 8,421	\$ 1	\$ (4)	\$ 8,418
U.S. agency securities	2,400	—	—	2,400
Total available-for-sale debt securities	<u>\$ 10,821</u>	<u>\$ 1</u>	<u>\$ (4)</u>	<u>\$ 10,818</u>
	As of December 31, 2015			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Amounts maturing in one year or less				
Corporate notes and obligations	\$ 2,245	\$ —	\$ —	\$ 2,245
U.S. agency securities	3,016	—	(1)	3,015
U.S. government treasury securities	999	1	—	1,000
Total available-for-sale debt securities	<u>\$ 6,260</u>	<u>\$ 1</u>	<u>\$ (1)</u>	<u>\$ 6,260</u>

As of September 30, 2016 and December 31, 2015, the Company did not consider any of the unrealized losses on its investments to be other-than-temporarily impaired based on its evaluation of available evidence. None of the investments held as of

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

September 30, 2016 and December 31, 2015 have been in a continuous unrealized loss position for more than 12 months. Realized gains and losses on sales of available-for-sale securities were immaterial for both periods presented.

Note 4. Warrants

Convertible Preferred Stock Warrant

The Company previously issued a warrant to purchase 27,321 shares of Series A convertible preferred stock in conjunction with a loan and security agreement with Silicon Valley Bank, or SVB, at an exercise price of \$1.37255 per share. Immediately prior to the completion of the IPO, this warrant was converted to a warrant to purchase 27,321 shares of Class B common stock. The fair value of the warrant at the time of conversion was \$0.6 million and was recorded as additional paid-in capital and a reduction of the preferred stock warrant liability. On September 26, 2016, the warrant holder exercised the warrant and the Company issued 25,658 shares of Class B common stock through a cashless exercise of the warrant, in accordance with its terms.

Common Stock Warrants

In connection with entering into and amending the senior credit facility, see Note 10, the Company issued warrants to purchase 21,444 shares of Class B common stock at an exercise price of \$13.99 per share and 5,241 shares of Class B common stock at an exercise price of \$14.31 per share. The warrants were recorded as additional paid-in capital and as debt issuance costs on the condensed consolidated balance sheet. In connection with the repayment of the debt, the unamortized debt issuance costs related to the warrants were expensed and recorded as interest expense in the condensed consolidated statements of operations.

On September 26, 2016, the warrant holders exercised these warrants and the Company issued 10,055 shares of Class B common stock through a cashless exercise of the warrants. The impact of this exercise was immaterial to the financial statements.

In addition, in connection with entering into the subordinated loan agreement, see Note 10, the Company issued warrants to purchase an aggregate of 21,208 shares of Class B common stock at an exercise price of \$14.31 per share. The warrants were recorded as additional paid-in capital and as debt issuance costs on the condensed consolidated balance sheet. In connection with the repayment of the debt, the unamortized debt issuance costs related to the warrants were expensed and recorded as interest expense in the condensed consolidated statements of operations.

On September 26, 2016, one of the warrant holders exercised warrants to purchase 10,604 shares of Class B common stock. The Company issued 3,874 shares of Class B common stock through a cashless exercise of the warrants. The remaining warrants to purchase 10,604 shares of Class B common stock were outstanding as of September 30, 2016. The impact of this exercise was immaterial to the financial statements.

Note 5. Stockholders' Equity

Convertible Preferred Stock

Immediately prior to the completion of the IPO, all shares of convertible preferred stock then outstanding were automatically converted to 18,239,475 shares of Class B common stock on a one-for-one basis.

Preferred Stock

As of September 30, 2016, the Company had authorized 5,000,000 shares of preferred stock, par value \$0.0001, of which no shares were outstanding.

Common Stock

Immediately prior to the completion of the IPO, all shares of common stock then outstanding were converted to Class B common stock on a one-for-one basis. Shares offered and sold in the IPO were the newly authorized shares of Class A common stock.

As of September 30, 2016 the Company had authorized 451,000,000 shares of Class A common stock and 44,000,000 shares of Class B common stock, each par value \$0.0001 per share, of which 6,900,000 shares and 31,398,491 shares of Class A and Class B common stock, respectively, were issued and outstanding. Holders of Class A and Class B common stock are entitled to one vote per

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

share and ten votes per share, respectively. The shares of Class A common stock and Class B common stock are identical, except for voting and conversion rights.

As of December 31, 2015, the Company had 12,897,001 shares of common stock outstanding.

Note 6. Equity Incentive Plans

2007 Stock Plan

The Company granted options under its 2007 stock plan, as amended, or the 2007 Plan, until September 23, 2016, when the plan was terminated in connection with the Company's IPO. Accordingly, no shares are available for future issuance under this plan. The 2007 Plan continues to govern outstanding equity awards granted thereunder.

2011 Executive Equity Incentive Plan

The Company granted options under its 2011 executive equity incentive plan as amended, or the 2011 Plan, until September 23, 2016, when the plan was terminated in connection with the Company's IPO. Accordingly, no shares are available for future issuance under this plan. The 2011 Plan continues to govern outstanding equity awards granted thereunder.

2016 Equity Incentive Plan

The Company's 2016 Equity Incentive Plan, or the 2016 Plan, became effective on September 21, 2016. The 2016 Plan provides for the grant of incentive stock options, or ISOs, within the meaning of Section 422 of the Internal Revenue Code, to the Company's employees or any of the Company's subsidiaries' employees, and for the grant of nonstatutory stock options, or NSOs, restricted stock, restricted stock units, stock appreciation rights, performance units and performance shares to employees, directors and consultants of the Company and the Company's subsidiaries' employees and consultants. The total number of shares of Class A common stock reserved for issuance under the 2016 Plan is equal to (1) 3,800,000 shares plus (2) a number of shares of Class A common stock equal to the number of shares of Class B common stock subject to awards granted under the 2007 Plan and the 2011 Plan, or our Existing Plans, that, on or after September 22, 2016 expire or otherwise terminate without having been exercised in full, and a number of shares of Class A common stock equal to the number of shares of Class B common stock issued pursuant to awards granted under our Existing Plans that are forfeited to or repurchased by us, provided that the maximum number of shares of Class A common stock that may be added to the 2016 Plan pursuant to (2) is 11,663,388 shares. These available shares will automatically increase each January 1, beginning on January 1, 2017, by the lesser of 5,500,000 shares of Class A common stock, by 5% of the outstanding shares of all classes of the Company's common stock as of the last day of the Company's immediately preceding fiscal year, or such other amount as the Company's board of directors may determine on or before the last day of the Company's immediately preceding fiscal year.

2016 Employee Stock Purchase Plan

The Company's Employee Stock Purchase Plan, or 2016 ESPP, became effective on September 21, 2016. A total of 750,000 shares of the Company's Class A common stock were initially reserved for issuance under the 2016 ESPP. These available shares will automatically increase each January 1, beginning on January 1, 2017, by the lesser of 1,600,000 shares of Class A common stock, 1% of the number of shares of all classes of the Company's common stock outstanding on the immediately preceding fiscal year, or such lesser number of shares as determined by the Company's board of directors.

The 2016 ESPP allows eligible employees to purchase shares of the Company's Class A common stock at a discount of up to 15% through payroll deductions of their eligible compensation, subject to any plan limitations. Except for the initial offering period, the 2016 ESPP provides for separate six-month offering periods beginning November 30 and May 31 of each fiscal year. The initial offering period will run from September 23, 2016 through May 31, 2017.

On each purchase date, eligible employees will purchase the Company's Class A common stock at a price per share equal to 85% of the lesser of (1) the fair market value of the Company's Class A common stock on the first trading day of the offering period, which for the initial offering period is the initial price to public in the IPO, and/or (2) the fair market value of the Company's common stock on the purchase date.

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

During the three and nine months ended September 30, 2016, no shares of Class A common stock were purchased under the 2016 ESPP.

Stock option activity under the 2007 Plan, 2011 Plan and the 2016 Plan during the nine months ended September 30, 2016 was as follows (in thousands, except per share and contractual life data):

	Options Outstanding	Weighted- Average Exercise Price per Share	Weighted- Average Remaining Contractual Life (years)	Total Intrinsic Value
Outstanding at December 31, 2015	10,506	\$ 8.51	7.49	\$ 60,911
Options granted	2,063	14.31		
Options exercised	(222)	4.50		
Options forfeited or canceled	(815)	11.46		
Outstanding at September 30, 2016	<u>11,532</u>	\$ 9.42	7.22	\$ 141,628
Vested and expected to vest - September 30, 2016	10,612	\$ 9.09	7.08	\$ 133,851
Exercisable - September 30, 2016	6,496	\$ 6.23	5.87	\$ 100,492

Stock-based compensation expense recognized in the Company's statement of comprehensive loss was as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Cost of revenue				
Subscription	\$ 232	\$ 145	\$ 564	\$ 341
Professional services	190	179	557	574
Research and development	698	577	1,965	1,737
Sales and marketing	735	623	2,176	1,833
General and administrative	632	498	1,640	1,392
Total stock-based compensation	<u>\$ 2,487</u>	<u>\$ 2,022</u>	<u>\$ 6,902</u>	<u>\$ 5,877</u>

As of September 30, 2016, there was a total of \$23.2 million of unrecognized compensation cost related to unvested stock-based compensation arrangements granted under the 2007 and 2011 Plans. That cost is expected to be recognized over a weighted-average remaining expected term of 3.04 years.

Note 7. Net Loss Per Share Attributable to Common Stockholders

The Company calculates basic and diluted net loss per share attributable to common stockholders in conformity with the two-class method required for companies with participating securities. The Company considers all series of convertible preferred stock to be participating securities. Under the two-class method, the net loss attributable to common stockholders is not allocated to the convertible preferred stock as the holders of convertible preferred stock do not have a contractual obligation to share in losses.

The diluted net loss per share attributable to common stockholders is computed by giving effect to all potential dilutive common stock equivalents outstanding for the period. For purposes of this calculation, convertible preferred stock, options to purchase common stock and warrants to purchase common stock and convertible preferred stock are considered common stock equivalents but have been excluded from the calculation of diluted net loss per share attributable to common stockholders as their effect is antidilutive. Basic and diluted net loss per share was the same for each period presented, as the inclusion of all potential common shares outstanding would have been antidilutive.

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

The following table sets forth the computation of basic and diluted net loss per share (in thousands, except per share data):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Numerator:				
Net loss attributable to common stockholders	\$ (8,755)	\$ (9,865)	\$ (23,636)	\$ (28,271)
Denominator:				
Weighted-average common shares outstanding - basic and diluted	13,884	12,754	13,307	12,575
Net loss per common share, basic and diluted	\$ (0.63)	\$ (0.77)	\$ (1.78)	\$ (2.25)

The following weighted-average outstanding shares of common stock equivalents were excluded from the computation of diluted net loss per share attributable to common stockholders for the periods presented because the impact of including them would have been antidilutive (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Options to purchase common shares	11,514	9,154	10,862	9,040
Common stock warrant	46	11	36	4
Convertible preferred shares (as converted)	17,645	18,240	18,040	18,240
Preferred stock warrant	26	27	27	27
	<u>29,231</u>	<u>27,432</u>	<u>28,965</u>	<u>27,311</u>

Note 8. Segments

The Company operates its business as one operating segment. Its chief operating decision makers, or CODMs, are its Chief Executive Officer and Chief Financial Officer. The CODMs review separate revenue information for the Company's subscription and professional services revenue, and all other financial information presented on a consolidated basis, for purposes of making operating decisions, assessing financial performance and allocating resources.

Revenue

The following table sets forth the Company's total revenue by geographic area for the three and nine months ended September 30, 2016 and 2015, as determined based on the billing address of the customer (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
North America	\$ 29,941	\$ 25,327	\$ 87,341	\$ 74,105
Europe	9,066	5,512	24,259	15,889
APAC	1,620	1,415	4,649	4,415
	<u>\$ 40,627</u>	<u>\$ 32,254</u>	<u>\$ 116,249</u>	<u>\$ 94,409</u>

Revenue attributed to the United States was approximately 99% of North America revenue for the three and nine months ended September 30, 2016, respectively, and 99% and 98% for the three and nine months ended September 30, 2015, respectively.

Note 9. Commitments and Contingencies

Leases

The Company has entered into non-cancellable operating leases, primarily related to rental of office space and certain office equipment. Certain lease agreements include rent payment escalation clauses and free rent (rent holidays). The total amount of base rentals over the term of the leases is charged to expense using the straight-line method with the amount of the rental expense in excess of lease payments recorded as a deferred rent liability. Total rent expense for operating leases was \$1.0 million and \$2.8 million for

Apptio, Inc.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

the three and nine months ended September 30, 2016, respectively, and \$0.9 million and \$2.7 million for the three and nine months ended September 30, 2015, respectively.

In May 2016, the Company amended its primary office space lease by adding an additional 9,000 square feet.

The Company also finances the purchase of certain office equipment under capital lease arrangements.

Other Commitments

The Company has entered into certain other non-cancellable agreements for software and marketing services that specify all significant terms, including fixed or minimum services to be used, pricing provisions and the approximate timing of the transaction. Obligations under contracts that are cancellable are not included. There have been no material changes for commitments compared to those discussed in Note 11 of the notes to the consolidated financial statements as disclosed in the Prospectus.

Legal Matters

From time to time, the Company has become involved in claims and other legal matters arising in the ordinary course of business. The Company investigates these claims as they arise. Although claims are inherently unpredictable, the Company is currently not aware of any matters that may have a material adverse effect on the Company's business, financial position, results of operations or cash flows, individually or in the aggregate.

The Company accrues estimates for resolution of legal and other contingencies when losses are probable and estimable. From time to time, the Company is a party to litigation and subject to claims incident to the ordinary course of business, including intellectual property claims, labor and employment claims, and threatened claims, breach of contract claims, and other matters.

Although the results of litigation and claims are inherently unpredictable, the Company believes that there was not at least a reasonable possibility that it had incurred a material loss with respect to such loss contingencies, as of September 30, 2016, therefore, the Company has not recorded a reserve for any material contingencies.

Note 10. Credit Facilities

On April 20, 2016, the Company amended a revolving credit agreement, or the senior credit facility, with SVB and entered into a new subordinated loan and security agreement, or subordinated loan agreement, with SVB and ORIX Ventures, LLC. The Company incurred a total of \$20.0 million in term loan borrowings under these agreements in 2016.

Using the proceeds from the IPO, on September 28, 2016, the Company repaid \$10.0 million principal amount of term borrowings under the senior credit facility, which is no longer available to be reborrowed, and \$10.0 million principal amount of term borrowings under the subordinated loan and security agreement. In addition, the Company paid a debt prepayment penalty and a final payment fee in the aggregate amount of \$0.2 million in connection with the foregoing repayment under the subordinated loan and security agreement. Unamortized debt issuance costs of \$0.5 million were expensed and recorded as interest expense in the condensed consolidated statement of operations. The subordinated loan agreement was extinguished as a result of the repayment and no amounts were available to the Company under this agreement as of September 30, 2016.

The Company can incur revolver borrowings on a borrowing base tied to the amount of eligible accounts receivable, not to exceed \$15.0 million. Interest on the revolver borrowings accrues at a floating rate equal to the prime rate and is payable monthly. The revolver matures on June 16, 2017. No amounts were outstanding under the senior credit facility as of September 30, 2016 or December 31, 2015.

The senior credit facility contains customary conditions to borrowing, events of default and covenants, including covenants that restrict our ability to dispose of assets, merge with or acquire other entities, incur indebtedness, incur encumbrances, make distributions to holders of our capital stock, make investments or engage in transactions with our affiliates. If the Company's cash and cash equivalents, as defined in the senior credit facility, are below \$25 million as of the last day of the applicable monthly measuring period, the Company will be required to comply with a financial covenant based on subscription and professional services bookings. This financial covenant is measured both monthly and quarterly, generally on a trailing six month basis. The Company was in compliance with all covenants as of September 30, 2016. The Company's obligations under the senior credit facility are secured by substantially all of the assets of the Company other than intellectual property.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

This discussion contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Statements containing words such as "may," "believe," "anticipate," "expect," "intend," "plan," "project," "projections," "business outlook," "estimate," or similar expressions constitute forward-looking statements. You should read these statements carefully because they discuss future expectations, contain projections of future results of operations or financial condition or state other "forward-looking" information. These statements relate to our future plans, objectives, expectations, intentions and financial performance and the assumptions that underlie these statements. They include, but are not limited to, statements about:

- *Our market opportunity, market leadership and ability to compete effectively;*
- *Our anticipated growth strategies and our ability to effectively manage that growth and execute these strategies;*
- *Our future financial performance, the expected use of proceeds from our initial public offering and future macroeconomic conditions; and*
- *Our ability to adequately protect our intellectual property and the regulatory regime for our products and services.*

Our actual results may differ materially from those contained in or implied by any forward-looking statements. Factors that could cause or contribute to these differences include those discussed below and elsewhere in this report, including those factors discussed in Part I, Item 1A (Risk Factors).

In light of the significant uncertainties and risks inherent in these forward-looking statements, you should not regard these statements as a representation or warranty by us or anyone else that we will achieve our objectives and plans in any specified time frame, or at all, or as predictions of future events. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

Overview

We are the leading provider of Technology Business Management, or TBM, solutions. Our cloud-based platform and SaaS applications enable IT leaders to analyze, optimize and plan technology investments, and benchmark their financial and operational performance against peers. We empower IT leaders to transform IT into a service provider, navigate the cloud transition, and shift technology resources to drive more business innovation.

We were founded in 2007 to deliver cloud-based TBM solutions to global enterprises. Our cycle of frequent updates has facilitated rapid innovation and the introduction of new applications throughout our history. We began offering our first TBM application via our extensible platform in 2008. Since then, we have continued to invest in product innovation and have consistently introduced new applications and capabilities to the market.

Because we offer our applications on a subscription basis, typically on contracts with one- to three-year terms, we have visibility into a substantial portion of future revenue. Subscription fees are based on two primary factors: (1) the customer's annual costs being managed by the applications; and (2) the applications or capabilities for which the customer has subscribed. For some applications, pricing is also impacted by the number of users. We recognize revenue from subscription fees ratably over the term of the contract. We currently derive a significant portion of subscription revenue from subscriptions to our Cost Transparency application. We sell our offerings primarily through a direct sales force and we engage in a variety of marketing activities, including traditional and online activities as well as participation in, and support of, the TBM Council, which are designed to provide sales lead generation, sales support and market awareness. Customers may subscribe for one or more of our applications, and within those applications they may choose to subscribe for all or a portion of the respective application's capabilities, which are segmented into modules. For those customers that do not initially implement all of our applications, we seek to sell additional applications and modules over time. We believe that there is a significant opportunity to continue to expand the number of applications deployed by existing customers. We also derive revenue from professional services. Professional services revenue includes revenue from application configuration, integration, change management, education and training services, and conference registration and sponsorship fees. This revenue is largely driven by the number and mix of implementations that we perform in a quarter.

We generate the majority of our revenue in North America; however, we are focused on growing our international business. Revenue generated from customers outside of North America accounted for 26% and 25% of total revenue in the three and nine months ended September 30, 2016, respectively, and 21% and 22% in the same respective periods in 2015. For additional information regarding revenue generated from each geographic segment, please see Note 8 of the notes to our condensed consolidated financial statements.

We have grown significantly in a relatively short period of time. Our diverse customer base includes companies across industries and sizes, and our direct sales force has historically targeted organizations with annual IT spend of \$100 million or more. Beginning in 2014, we expanded the focus of our sales force to include a broader set of target customers, often referred to as the Global 10,000, which includes many companies with annual IT spend of less than \$100 million. We expect these customers will account for an increasing amount of our revenue over time. A substantial majority of our revenue growth has come from new customers. Our current financial focus is on growing our revenue and expanding our customer base. While we are incurring losses today, we strive to invest in a disciplined manner across all of our functional areas to sustain continued near-term revenue growth and support our long-term initiatives. Our operating expenses have increased significantly in absolute dollars in recent periods, primarily due to employee growth. We had 709 and 637 employees as of September 30, 2016 and 2015, respectively.

We had total revenue of \$40.6 million and \$32.3 million for the three months ended September 30, 2016 and 2015, respectively, reflecting a period-over-period increase of 26%. Subscription revenue was \$33.3 million and \$25.6 million in for the three months ended September 30, 2016 and 2015, respectively, reflecting a period-over-period increase of 30%. For the nine months ended September 30, 2016 and 2015, total revenue was \$116.2 million and \$94.4 million, respectively, reflecting a period-over-period increase of 23%. Subscription revenue was \$95.0 million and \$72.8 million for the nine months ended September 30, 2016 and 2015, respectively, reflecting a period-over-period increase of 30%. We incurred net losses of \$8.8 million and \$9.9 million for the three months ended September 30, 2016 and 2015, and net losses were \$23.6 million and \$28.3 million for the nine months ended September 30, 2016 and 2015, respectively. We had an accumulated deficit of \$192.4 million as of September 30, 2016. We expect to incur losses for the foreseeable future and may not be able to achieve or sustain profitability.

Our Business Model

Our business model focuses on maximizing the lifetime value of customer relationships. We make significant investments in acquiring new customers and believe that we will be able to achieve a substantial positive return on these investments by retaining customers, increasing the number of applications and modules deployed by customers over time, and increasing the spend managed by our applications. In connection with the acquisition of new customers, we incur significant upfront costs, including sales and marketing costs associated with acquiring new customers, such as sales commission expenses, which are expensed upfront, and marketing costs, which are expensed as incurred. We recognize subscription revenue ratably over the term of the subscription period, which commences when all of the revenue recognition criteria have been met.

Our objective is for each customer relationship to be profitable over its lifetime, however, the costs we incur with respect to any customer relationship may exceed revenue in earlier periods because we recognize those costs faster than we recognize the associated revenue. Over time, we expect a large portion of our customers to renew their subscriptions, purchase additional applications and expand their IT spend managed by our applications. We also expect the proportion of annual revenue from existing customers to grow relative to annual revenue from new customers. Our sales and marketing expense for renewals and additional sales to existing customers are significantly less than those for sales to new customers while the cost of revenue remains relatively constant. As a result, we believe the mix shift over time between new and existing customers will have a positive impact on our operating margins. Specifically, as the percentage of our annual revenue from existing customers grows relative to the annual revenue from new customers, we would expect the percentage of revenue spent on sales and marketing to decline.

Recent Developments

In September 2016, we completed an initial public offering, or IPO, in which we sold 6,900,000 shares of our Class A common stock at the initial price to public of \$16.00 per share. We received net proceeds of \$99.1 million, after deducting underwriting discounts and commissions and offering expenses paid and payable by us.

Key Factors Affecting Our Performance

Net Subscription Dollar Retention Rate

We believe that our net subscription dollar retention rate provides insight into our ability to retain and increase revenue from our customers, as well as their potential long-term value to us. Accordingly, we compare the aggregate annual contract value of our customer base at the end of the prior 12 month period, which we refer to as the base annual contract value, to the aggregate annual contract value from the same group of customers at the end of the current 12 month period, which we refer to as the retained annual contract value. We calculate our net subscription dollar retention rate on a trailing 12 month basis by dividing the retained annual contract value by the base annual contract value. In the event a customer renews a subscription for a period that begins and ends in the same 12 month period, the value of that partial-year subscription is included in our calculation of retained annual contract value. Our net subscription dollar retention rate was approximately 100% for each of the 12 month periods ending September 30, 2016 and 2015.

Investment in Growth

We intend to continue investing for long-term growth. We plan to continue to expand our sales and marketing organizations to sell our offerings globally. In addition, we have invested, and expect to continue to invest, in our product development efforts to deliver additional compelling applications and to address customers' evolving needs. We are also investing in personnel to service our growing customer base. These investments will increase operating expenses on an absolute dollar basis for the foreseeable future. Many of these investments will occur in advance of our experiencing any direct benefit from them and will make it difficult to determine if we are allocating our resources efficiently. However, we expect research and development, sales and marketing, and general and administrative expenses to decrease as a percentage of total revenue over the long-term as revenue grows, and we anticipate that we will gain economies of scale as our customer base grows.

Since our inception, we have invested in professional services to help ensure that customers successfully deploy and adopt our applications. Additionally, we continue to expand our professional services partner ecosystem to further support our customers. We believe that our investment in professional services, as well as partners building consulting practices around Apptio, will drive additional customer subscriptions and continued growth in revenue. In addition, over the long-term, we expect professional services revenue to decrease as a percentage of total revenue as our customer base continues to grow and as the effort required to deploy our solutions decreases, through product enhancements and our efforts to drive increased customer adoption of our standardized IT operating model, the Apptio TBM Unified Model, or ATUM.

Investment in Infrastructure

We have made, and intend to continue to make, substantial investments in infrastructure that will impact cost of revenue, operating expenses and capital expenditures. We intend to invest to support growth at our leased data centers and with public cloud infrastructure providers to deliver enhanced levels of service to our customers. We intend to continue to invest in enhancements to our cloud architecture, which are designed to provide our customers with enhanced security, scalability and availability. We intend to continue to evaluate the expansion of our data center locations to address additional geographic markets. In addition, we intend to expand existing and establish new facilities in the future to accommodate our projected headcount growth at various locations around the world. We expect to incur substantial costs in connection with such expansion efforts, including leasehold improvements, equipment costs, and, if headcount increases faster than we expect, potentially lease termination payments to enter into new leases for larger space.

Focus on Free Cash Flow

We define free cash flow as cash used in operating activities less purchases of property and equipment. We consider free cash flow to be an important measure that we are focused on to run our business. For a reconciliation of free cash flow to the related GAAP measure, net cash used in operating activities, see the section captioned "Non-GAAP Financial Measures."

Components of Our Results of Operations

Revenue

We derive revenue from two sources: (1) subscription revenue, which is comprised of subscription fees from customers accessing our platform, fees for additional support beyond the standard support that is included in the basic subscription fees, and fees for subscription-based online training; and (2) professional services, which consist of fees associated with the implementation and configuration of our applications, as well as fees for in-person training and conference registration and sponsorship fees for the TBM Council, the operations of which we consolidate in our financial statements given the nature of our relationship.

Subscription revenue is driven primarily by the acquisition of new customers and renewals by existing customers, the amount of annual spend our customers are licensed to manage with our applications and the number of applications or capabilities for which the customer has subscribed.

Support revenue is derived from customers purchasing additional support beyond the standard support that is included in the basic subscription fees. Our contracts typically vary in length between one and three years. All subscription and support fees that are billed in advance of service are recorded in deferred revenue. Subscription and support-based revenue is recognized ratably over the subscription term. As a result, most of the revenue that we report in each period is derived from the recognition of deferred revenue relating to subscriptions entered into during previous periods. Pricing includes multiple environments, hosting and support services, data backup and disaster recovery services, as well as future upgrades, when and if available, offered during the subscription period. We typically invoice our customers for subscription fees in annual increments upon execution of the initial contract or subsequent renewal, but contract lengths and billing frequencies may vary. Therefore, the annualized value of the arrangements that we enter into with our customers may not be fully reflected in deferred revenue at any single point in time. Accordingly, we do not believe that the

change in deferred revenue for any period is an accurate indicator of future revenue for a given period of time. Our contracts are generally non-cancelable during the subscription term, though a customer can terminate for breach if we materially fail to perform.

A typical new customer implementation takes three to six months depending on the customer's complexity and timeliness. All professional services fees that are billed in advance of service are recorded in deferred revenue. Our professional services engagements are priced on either a time-and-materials basis or on a fixed-fee basis. In addition, sometimes partners will perform implementation services directly to our customers for which we do not receive professional services revenue. For time-and-materials arrangements, we recognize revenue as hours are worked at the stated hourly rate. For fixed-fee arrangements, we recognize professional services revenue using the percentage of completion method measured on an hours incurred basis. Professional services yield lower gross margins than subscriptions due to the labor-intensive nature of professional services.

On occasion, we sell our applications through third-party resellers. These arrangements typically call for the reseller to retain a portion of the subscription fee paid by the customer as compensation. Since we are typically responsible for the acceptability of the services purchased by the customer, we are the primary obligor in the transaction and, therefore, record revenue on a gross basis based on the amount billed to the customer. Reseller fees are recognized as sales and marketing expense as incurred.

Cost of Revenue and Gross Margin

Cost of subscription revenue consists primarily of employee-related costs, including payroll, benefits and stock-based compensation expense for our technology operations and customer support teams, fees paid to our managed hosting providers and other third-party service providers, amortization of capitalized software development costs and acquired technology, and allocated overhead costs, which include rent, facilities and costs related to internal IT. We expect cost of subscription revenue to continue to increase in absolute dollars for the foreseeable future as our customer base grows.

Subscription gross margin, or subscription revenue less cost of subscription revenue expressed as a percentage of subscription revenue, can and does fluctuate based on a number of factors, including the timing and extent of the fees that we pay to our hosting providers and other third-party service providers, and the timing and extent of the investments that we make in additional data center infrastructure and capabilities. Due to investments we made in additional data centers and public cloud hosting capabilities prior to December 31, 2015, we expect subscription gross margin to increase modestly over the long-term, although it may fluctuate from period to period depending on the interplay of the factors discussed above. Because we have data centers in each of our three primary geographies, we expect to be able to more efficiently add capacity within these data centers to support our anticipated customer growth.

Cost of professional services revenue consists primarily of personnel costs of our professional services organization, including salaries, employee benefits, travel expenses, bonuses and stock-based compensation expense, as well as allocated overhead costs. In addition, cost of professional services excludes costs associated with TBM Council conferences, which we record as sales and marketing expenses. We expect cost of professional services revenue to continue to increase in absolute dollars for the foreseeable future as we further expand our professional services organization to serve our growing customer base.

Professional services gross margin, or professional services revenue less cost of professional services revenue expressed as a percentage of professional services revenue, can and does fluctuate based on a number of factors, including the timing and extent of our investments in our professional services organization. The primary focus of our professional services business will continue to be providing high-quality customer deployments that allow customers to realize rapid value from our solutions and become long-term, loyal customers. In the future, we may choose to invest in our professional services organization at a pace faster than professional services revenue growth, in which case we may experience a decline in professional services gross margin. We also expect professional services gross margin to be positively affected in periods, particularly the fourth quarter, in which we recognize revenue related to TBM Council events. We expect professional services gross margin to remain relatively consistent over the long-term, although it may fluctuate from period to period depending on the interplay of the factors discussed above.

We expect total gross margin to increase modestly over the long-term as our subscription revenue increases as a percentage of total revenue, as we realize operational efficiencies in our data centers and public cloud hosting environments, and as we continue to leverage our partners to help us provide professional services, although total gross margin may fluctuate from period to period depending on the interplay of the factors discussed above.

Operating Expenses

Research and Development. Research and development expenses consist primarily of personnel costs, employee benefits, stock-based compensation expense and other headcount-related costs associated with product development, hosting costs and depreciation of equipment used in research and development, consulting fees, and allocated overhead costs. For development costs related to our

software and internal use software, qualifying internally developed software costs incurred during the application development stage are capitalized. Costs related to preliminary project activities and post-implementation activities are expensed as incurred. We expect research and development expenses to continue to increase in absolute dollars for the foreseeable future as we continue to increase the functionality and otherwise enhance our platform and develop new applications. However, we expect research and development expenses to decrease modestly as a percentage of total revenue over the long-term as our customer base and revenue grows, although research and development expenses may fluctuate as a percentage of total revenue from period to period due to the seasonality of revenue and the timing and extent of these expenses.

Sales and Marketing. Sales and marketing expenses consist primarily of personnel costs for our sales and marketing employees, including sales commissions and incentives, employee benefits and stock-based compensation expense, marketing programs for lead generation, the costs associated with TBM Council events and allocated overhead costs. We immediately expense sales commissions related to acquiring new customers and subsequent renewals from existing customers. We expect sales and marketing expenses to continue to increase and continue to be our largest component of operating expenses for the foreseeable future as we continue to expand our direct sales teams, increase our marketing activities, grow our international operations, build brand awareness and sponsor additional marketing events. However, we expect sales and marketing expenses to decrease as a percentage of total revenue over the long-term, although sales and marketing expenses may fluctuate as a percentage of total revenue from period to period due to the seasonality of revenue and the timing and extent of these expenses.

General and Administrative. General and administrative expenses consist primarily of personnel costs and related expenses, including payroll, employee benefits and stock-based compensation expense for executive, finance, legal, human resources, and administrative personnel, professional fees for external legal, accounting and other consulting services and allocated overhead costs. We expect general and administrative expenses will continue to increase in absolute dollars for the foreseeable future as we continue to grow and incur the costs of compliance associated with being a publicly traded company, including increased legal, audit and consulting fees. Although general and administrative expenses may fluctuate as a percentage of total revenue from period to period due to the seasonality of revenue and the timing and extent of these expenses, in the near term, we expect general and administrative expenses to increase as a percentage of total revenue; however, we expect general and administrative expenses to decrease modestly as a percentage of total revenue over the long-term as we focus on processes, systems and controls to enable our internal support functions to scale with the growth of our business.

Other Income (Expense)

Interest Income (Expense) and Other, Net. Interest income (expense) and other, net consists primarily of interest on our capital leases and debt, and fair value adjustments for our preferred stock warrant liability. Interest income is derived from our available-for-sale investments.

Foreign Exchange Loss. Foreign exchange loss consists primarily of foreign currency transaction gains and losses related to the impact of transactions denominated in a foreign currency other than the functional currency (U.S. dollars). As we have expanded our international operations, our exposure to fluctuations in foreign currencies has increased, and we expect this trend to continue.

Provision for Income Taxes. Provision for income taxes consists primarily of income taxes in certain foreign jurisdictions in which we conduct business. As we have expanded our international operations, we have incurred increased foreign tax expense, and we expect this trend to continue. We have a full valuation allowance for net deferred tax assets, including net operating loss carryforwards, and tax credits related primarily to research and development. We expect to maintain this full valuation allowance for the foreseeable future.

Non-GAAP Financial Measures

In addition to our results determined in accordance with U.S. generally accepted accounting principles, or GAAP, we believe free cash flow, which is a non-GAAP measure, is useful in evaluating our business performance. We define free cash flow as net cash used in operating activities, less purchases of property and equipment. We regularly review the liquidity measure set forth below.

	Nine Months Ended	
	September 30,	
	2016	2015
	(in thousands)	
Free cash flow	\$ (5,706)	\$ (15,396)

We believe free cash flow facilitates period-to-period comparisons of liquidity. We consider free cash flow to be an important measure because it measures the amount of cash we generate from our operations after our capital expenditures and reflects changes in working capital. We use free cash flow in conjunction with traditional GAAP measures as part of our overall assessment of our liquidity, including the preparation of our annual operating budget and quarterly forecasts, to evaluate the effectiveness of our business strategies and to communicate with our board of directors concerning our liquidity.

Our definitions may differ from the definitions used by other companies and therefore comparability may be limited. In addition, other companies may not publish these or similar metrics. Thus, our free cash flow should be considered in addition to, not as a substitute for, or in isolation from, measures prepared in accordance with GAAP.

We compensate for these limitations by providing investors and other users of our financial information reconciliations of free cash flow to the related GAAP financial measure, net cash used in operating activities. We encourage investors and others to review our financial information in its entirety, not to rely on any single financial measure and to view free cash flow in conjunction with the related GAAP financial measure.

The following table provides a reconciliation of net cash used in operating activities to free cash flow:

	Nine Months Ended	
	September 30,	
	2016	2015
	(in thousands)	
Net cash used in operating activities	\$ (2,188)	\$ (8,760)
Less: purchases of property and equipment	(3,518)	(6,636)
Free cash flow	<u>\$ (5,706)</u>	<u>\$ (15,396)</u>
Net cash (used in) provided by investing activities	\$ (5,642)	\$ 4,898
Net cash provided by financing activities	\$ 102,617	\$ 1,803

Results of Operations

The following tables set forth our results of operations for the periods presented and as a percentage of our total revenue for those periods.

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
(in thousands)				
Revenue				
Subscription	\$ 33,314	\$ 25,594	\$ 94,995	\$ 72,836
Professional services	7,313	6,660	21,254	21,573
Total revenue	40,627	32,254	116,249	94,409
Cost of revenue				
Subscription (1)	6,921	6,173	19,960	17,315
Professional services (1)	7,068	6,684	19,780	19,720
Total cost of revenue	13,989	12,857	39,740	37,035
Gross profit	26,638	19,397	76,509	57,374
Operating expenses				
Research and development (1)	9,015	7,928	26,072	22,602
Sales and marketing (1)	18,300	15,855	54,256	49,129
General and administrative (1)	6,285	5,023	16,969	12,721
Total operating expenses	33,600	28,806	97,297	84,452
Loss from operations	(6,962)	(9,409)	(20,788)	(27,078)
Other income (expense)				
Interest (expense) income and other, net	(1,312)	(18)	(1,746)	1
Foreign exchange loss	(367)	(351)	(774)	(958)
Loss before provision for income taxes	(8,641)	(9,778)	(23,308)	(28,035)
Provision for income taxes	(114)	(87)	(328)	(236)
Net loss	\$ (8,755)	\$ (9,865)	\$ (23,636)	\$ (28,271)

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

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
(in thousands)				
Cost of revenue				
Subscription	\$ 232	\$ 145	\$ 564	\$ 341
Professional services	190	179	557	574
Research and development	698	577	1,965	1,737
Sales and marketing	735	623	2,176	1,833
General and administrative	632	498	1,640	1,392
Total stock-based compensation	\$ 2,487	\$ 2,022	\$ 6,902	\$ 5,877

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
	(as a percentage of total revenue)			
Revenue				
Subscription	82%	79%	82%	77%
Professional services	18	21	18	23
Total revenue	100	100	100	100
Cost of revenue				
Subscription	17	19	17	18
Professional services	17	21	17	21
Total cost of revenue	34	40	34	39
Gross profit	66	60	66	61
Operating expenses				
Research and development	23	25	22	24
Sales and marketing	45	49	47	52
General and administrative	15	15	15	13
Total operating expenses	83	89	84	89
Loss from operations	(17)	(29)	(18)	(28)
Other income				
Interest expense and other, net	(4)	—	(1)	—
Foreign exchange loss	(1)	(1)	(1)	(1)
Loss before provision for income taxes	(22)	(30)	(20)	(29)
Provision for income taxes	—	—	—	—
Net loss	(22)%	(30)%	(20)%	(29)%

Three Months Ended September 30, 2016 Compared to the Three Months Ended September 30, 2015

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Subscription	\$ 33,314	\$ 25,594	\$ 7,720	30%
Professional services	7,313	6,660	653	10
Total revenue	\$ 40,627	\$ 32,254	\$ 8,373	26

Subscription revenue increased for the three months ended September 30, 2016 primarily due to the impact of new customer acquisition. Professional services revenue increased for the three months ended September 30, 2016 primarily due to an increase in implementation fees associated with the growth in our customer base.

Cost of Revenue and Gross Margin

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Cost of revenue:				
Subscription	\$ 6,921	\$ 6,173	\$ 748	12%
Professional services	7,068	6,684	384	6
Total cost of revenue	\$ 13,989	\$ 12,857	\$ 1,132	9
Gross margin:				
Subscription	79%	76%		
Professional services	3	—		
Total gross margin	66	60		

The overall increase in cost of subscription revenue was primarily attributable to increased personnel-related costs of \$1.1 million driven by headcount growth, which resulted in increased employee compensation, benefits and travel costs of \$1.0 million, and additional stock-based compensation of \$0.1 million. In addition, data center fees increased by \$0.1 million as we increased data center capacity to support our growth, and allocated overhead expenses increased by \$0.2 million. These increases were offset by decreased consulting fees of \$0.1 million. Additionally, professional services personnel are, on occasion, utilized for services associated with general subscription support. As a result, we reallocate the related personnel costs from cost of professional services to cost of subscription. This cost allocation decreased by \$0.1 million as a result of planned improvements in our implementation service cycle, which reduced the need to augment our subscription support personnel. In 2016, we began allocating the cost of hosting internal-use instances of our SaaS applications to the departments using them. This resulted in a reduction of \$0.3 million in subscription cost of revenue for the three months ended September 30, 2016. We have evaluated the cost of hosting internal-use instances for the three months ended September 30, 2015, and determined that the impact was immaterial for reclassification of those financial statements. At September 30, 2016 and 2015, we delivered our service from six data centers located in the United States, Europe and Australia.

The overall increase in cost of professional services revenue was primarily attributable to an increase in outside services of \$0.4 million, due to the planned expansion of our professional services partner ecosystem to further support our customers and to supplement internal staff in providing implementation services in 2016.

Subscription gross margin increased as a result of an increase in revenue from growth in our customer base, and expanded utilization of existing hosting infrastructure.

Professional services gross margin increased due primarily to an increase in billable utilization rates. The improvements in utilization were partially offset by a lower effective bill rate, which may vary period over period, based on the composition of projects being delivered.

Operating Expenses

Research and Development

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Research and development	\$ 9,015	\$ 7,928	\$ 1,087	14%
Percentage of total revenue	23%	25%		

Research and development expenses increased primarily due to increased personnel-related costs of \$1.0 million, consisting of increased employee compensation and benefits costs driven by headcount growth. Total headcount in research and development increased 12% from September 30, 2015 to September 30, 2016 as we continued to upgrade and enhance our platform and applications and develop new technologies. Additionally, allocated overhead and internal hosting costs increased by \$0.3 million.

Sales and Marketing

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Sales and marketing	\$ 18,300	\$ 15,855	\$ 2,445	15%
Percentage of total revenue	45%	49%		

Sales and marketing expenses increased due to the expansion of our sales force and increased allocated overhead costs. Total headcount in sales and marketing increased 8% from September 30, 2015 to September 30, 2016, contributing to a \$1.5 million increase in personnel-related costs, consisting of increased employee compensation, benefits, commissions and increased travel costs associated with our direct sales force of \$1.4 million, and additional stock-based compensation of \$0.1 million. Allocated overhead costs increased by \$0.3 million as a result of additional IT resources and internal hosting costs, and partner commissions increased by \$0.3 million due to an increase in the number of partner assisted sales during the period.

General and Administrative

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
General and administrative	\$ 6,285	\$ 5,023	\$ 1,262	25%
Percentage of total revenue	15%	15%		

General and administrative expenses increased primarily due to a 27% increase in headcount from September 30, 2015 to September 30, 2016 to support our overall growth. Personnel-related expenses increased by \$1.1 million, net of allocations, consisting of increased employee compensation, benefits and travel costs.

Other Income (Expense)

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Interest income (expense) and other, net	\$ (1,312)	\$ (18)	\$ (1,294)	NM*
Foreign exchange loss	\$ (367)	\$ (351)	\$ (16)	5%
*Not meaningful				

The increase in interest expense and other, net was primarily attributable to an increase of \$1.4 million in interest expense associated with the term loan borrowings, including the payment of a debt prepayment fee of \$0.2 million and unamortized debt issuance fees of \$0.5 million in connection with repayment of the term loan borrowings in the three months ended September 30, 2016. In addition, interest expense associated with fair value adjustments related to our mandatorily redeemable preferred stock warrants increased by \$0.2 million. The increase in foreign exchange loss was primarily due to the impact of foreign currency transaction gains and losses.

Provision for income taxes

	Three Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Provision for income taxes	\$ (114)	\$ (87)	\$ (27)	31%

The increase in provision for income taxes was due to an increase in foreign taxes related to our growing foreign operations.

Nine Months Ended September 30, 2016 Compared to the Nine Months Ended September 30, 2015

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Subscription	\$ 94,995	\$ 72,836	\$ 22,159	30%
Professional services	21,254	21,573	(319)	(1)
Total revenue	\$ 116,249	\$ 94,409	\$ 21,840	23

Subscription revenue increased for the nine months ended September 30, 2016 primarily due to the impact of new customer acquisition. Professional services revenue decreased for the nine months ended September 30, 2016 primarily due to a decrease in implementation times and a lessening need for our customers to purchase follow-on services after the initial deployment. This decrease is attributable to product enhancements and an increase in the number of packaged service offerings as a percentage of total.

Cost of Revenue and Gross Margin

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
(dollars in thousands)				
Cost of revenue:				
Subscription	\$ 19,960	\$ 17,315	\$ 2,645	15%
Professional services	19,780	19,720	60	—
Total cost of revenue	<u>\$ 39,740</u>	<u>\$ 37,035</u>	<u>\$ 2,705</u>	<u>7</u>
Gross margin:				
Subscription	79%	76%		
Professional services	7	9		
Total gross margin	66	61		

The overall increase in cost of subscription revenue was primarily attributable to increased personnel-related costs of \$3.4 million driven by headcount growth, which resulted in increased employee compensation, benefits and travel costs of \$3.2 million, and additional stock-based compensation of \$0.2 million. In addition, data center fees increased by \$0.2 million as we increased data center capacity to support our growth, and allocated overhead expenses increased by \$0.5 million. These increases were offset by decreased consulting fees of \$0.5 million. Additionally, professional services personnel are, on occasion, utilized for services associated with general subscription support. As a result, we reallocate the related personnel costs from cost of professional services to cost of subscription. This cost allocation decreased by \$0.3 million as a result of planned improvements in our implementation service cycle, which reduced the need to augment our subscription support personnel. In 2016, we began allocating the cost of hosting internal-use instances of our SaaS applications to the departments using them. This resulted in a reduction of \$0.8 million in subscription cost of revenue for the nine months ended September 30, 2016. We have evaluated the cost of hosting internal-use instances for the nine months ended September 30, 2015, and determined that the impact was immaterial for reclassification of those financial statements. At September 30, 2016 and 2015, we delivered our service from six data centers located in the United States, Europe and Australia.

The overall increase in cost of professional services revenue was primarily attributable to an increase in outside services of \$0.3 million, due to an increase in the use of third parties to supplement internal staff in providing implementation services in 2016 and a reduction of allocated costs to cost of subscription of \$0.3 million for personnel costs related to the use of professional services personnel for general subscription support. In addition, cost of professional services in 2016 includes a \$0.1 million allocation of the cost of hosting internal-use instances of our SaaS applications as discussed above. These increases were offset by a decrease in personnel-related costs consisting of employee compensation, benefits and travel costs of \$0.7 million driven by a reduction in headcount due to planned improvements in our implementation service cycle.

Subscription gross margin increased as a result of an increase in revenue from growth in our customer base, and expanded utilization of existing hosting infrastructure.

Professional services gross margin declined primarily due to a decline in the effective bill rate for projects delivered during the nine months ended September 30, 2016, as compared to the same period in 2015. The effective bill rate may vary period over period based on the composition of projects being delivered.

Operating Expenses

Research and Development

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
(dollars in thousands)				
Research and development	\$ 26,072	\$ 22,602	\$ 3,470	15%
Percentage of total revenue	22%	24%		

Research and development expenses increased primarily due to increased personnel-related costs of \$2.7 million, consisting of increased employee compensation and benefits driven by headcount growth. Total headcount in research and development increased

12% from September 30, 2015 to September 30, 2016 as we continued to upgrade and enhance our platform and applications and develop new technologies. Additionally, allocated overhead and internal hosting costs increased by \$0.7 million.

Sales and Marketing

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Sales and marketing	\$ 54,256	\$ 49,129	\$ 5,127	10%
Percentage of total revenue	47%	52%		

Sales and marketing expenses increased due to the expansion of our sales force and increased allocated overhead costs. Total headcount in sales and marketing increased 8% from September 30, 2015 to September 30, 2016, contributing to a \$3.5 million increase in personnel-related costs, consisting of increased employee compensation, benefits, commissions and increased travel costs associated with our direct sales force of \$3.2 million, and additional stock-based compensation of \$0.3 million. Allocated overhead costs increased by \$0.9 million as a result of additional IT resources and internal hosting costs.

General and Administrative

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
General and administrative	\$ 16,969	\$ 12,721	\$ 4,248	33%
Percentage of total revenue	15%	13%		

General and administrative expenses increased primarily due to a 27% increase in headcount from September 30, 2015 to September 30, 2016 to support our overall growth. Personnel-related expenses increased by \$3.8 million, net of allocations, consisting of increased employee compensation, benefits and travel costs.

Other Income (Expense)

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Interest income (expense) and other, net	\$ (1,746)	\$ 1	\$ (1,747)	NM*
Foreign exchange loss	\$ (774)	\$ (958)	\$ 184	(19)%
	*Not meaningful			

The increase in interest expense and other, net was primarily attributable to an increase of \$1.7 million in interest expense associated with the term loan borrowings, including the payment of a debt prepayment fee of \$0.2 million and unamortized debt issuance fees of \$0.5 million recorded to interest expense in connection with repayment of the term loan borrowings in the nine months ended September 30, 2016. In addition, interest expense associated with fair value adjustments related to our mandatorily redeemable preferred stock warrants increased by \$0.2 million. The decrease in foreign exchange loss was primarily due to the impact of foreign currency transaction gains and losses.

Provision for income taxes

	Nine Months Ended September 30,		Change	
	2016	2015	Amount	%
	(dollars in thousands)			
Provision for income taxes	\$ (328)	\$ (236)	\$ (92)	39%

The increase in provision for income taxes was due to an increase in foreign taxes related to our growing foreign operations.

Seasonality

We have historically experienced seasonality in terms of when we enter into agreements with customers. We typically enter into a significantly higher percentage of agreements with new customers, as well as renewal agreements with existing customers, in the fourth quarter and, to a lesser extent, the second quarter. The increase in customer agreements for the fourth quarter is attributable to large enterprise account buying patterns typical in the software industry. Fourth quarter professional services revenue is also typically positively impacted by recognition of TBM Council conference registration and sponsorship fees.

Sales and marketing expenses are typically higher in the fourth quarter due to commissions on the increase in customer agreements we typically see in that quarter, as well as increased expenses associated with the TBM Council conference.

Furthermore, we usually enter into a significant portion of agreements with customers during the last month, and often the last two weeks, of each quarter. This seasonality is reflected to a much lesser extent, and sometimes is not immediately apparent, in revenue, due to the fact that we recognize subscription revenue over the term of the subscription agreement, which is generally one to three years. Although these seasonal factors are common in the technology industry, historical patterns should not be considered a reliable indicator of future sales activity or performance.

Liquidity and Capital Resources

As of September 30, 2016, we had \$122.5 million of cash and investments, and \$15.0 million in available borrowings under our credit facilities. Historically, we funded our operations principally through sales of equity securities, sales of subscriptions and professional services, or the incurrence of debt. On September 28, 2016, we closed our IPO of 6,900,000 shares of Class A common stock at an initial price to the public of \$16.00 per share, resulting in aggregate net proceeds to us of \$99.1 million, after deducting underwriting discounts and offering expenses paid or payable by us. In 2016, our principal uses of cash are funding operations and other working capital requirements. Over the past several years, revenue has increased significantly from year to year and, as a result, cash flows from customer collections have increased. However, operating expenses have also increased as we have invested in growing our business. Our operating cash requirements may increase in the future as we continue to invest in the strategic growth of our company.

We believe that existing cash and investments, any positive cash flows from operations and available borrowings under our credit facility will be sufficient to support working capital and capital expenditure requirements for at least the next 12 months.

From time to time, we may explore additional financing sources and means to lower our cost of capital, which could include equity, equity-linked and debt financing. We cannot assure you that any additional financing will be available to us on acceptable terms, or at all.

Credit Facilities

In June 2015, we entered into an amended and restated loan and security agreement, or the senior credit facility, to allow for the incurrence of up to \$10.0 million in term loan borrowings and up to \$15.0 million aggregate principal amount of revolver borrowings. In January 2016, we incurred \$10.0 million principal amount of term borrowings under the senior credit facility. In April 2016, the senior credit facility was amended and we entered into a new subordinated loan and security agreement which provided for an additional \$20.0 million of term loan borrowings. Upon closing, we incurred \$10.0 million in term loan borrowings under the subordinated loan and security agreement. Using the proceeds from the IPO, on September 28, 2016, we repaid \$10.00 million principal amount of term borrowings under the senior credit facility, which are no longer available to be reborrowed, and \$10.0 million principal amount of term borrowings under the subordinated loan and security agreement. In addition, we paid a debt prepayment penalty and a final payment fee in the aggregate amount of \$0.2 million in connection with the foregoing repayment and extinguishment of the subordinated loan and security agreement. Following such repayment, we continue to have \$15.0 million available aggregate principal amount of revolver borrowings under the senior credit facility.

The senior credit facility contains customary conditions to borrowing, events of default and covenants, including covenants that restrict our ability to dispose of assets, merge with or acquire other entities, incur indebtedness, incur encumbrances, make distributions to holders of our capital stock, make investments or engage in transactions with affiliates. If cash, cash equivalents and investments held with the lender are below \$25 million as of the last day of the applicable monthly measuring period, we will be required to comply with a financial covenant based on subscription and professional services performance. This financial covenant is measured both monthly and quarterly, generally on a trailing six month basis. We were in compliance with all covenants as of

September 30, 2016. Our obligations under the senior credit facility are secured by substantially all of our assets other than intellectual property.

Cash Flows

The following table shows cash flows for the nine months ended September 30, 2016 and 2015 (in thousands):

	Nine Months Ended	
	September 30,	
	2016	2015
Cash used in operating activities	\$ (2,188)	\$ (8,760)
Cash (used in) provided by investing activities	(5,642)	4,898
Cash provided by financing activities	102,617	1,803

Operating Activities

Net cash used in operating activities consists primarily of net loss adjusted for certain non-cash items, including stock-based compensation, change in fair value of preferred stock warrant liability, depreciation and amortization and other non-cash charges.

Net cash used in operating activities during the nine months ended September 30, 2016 reflected our net loss of \$23.6 million, offset by non-cash expenses that included \$6.9 million of stock-based compensation, \$4.5 million of depreciation and amortization and \$0.7 million of loss on extinguishment of debt. Working capital sources of cash included a decrease of \$10.3 million in accounts receivable, primarily due to collections on transactions originating in the fourth quarter of 2015, and, a \$0.5 million increase in deferred revenue. These sources of cash were offset by a \$0.7 million increase in prepaid expenses and other current assets and a \$1.2 million net decrease in accounts payable, accrued expenses and deferred rent.

Net cash used in operating activities during the nine months ended September 30, 2015 reflected our net loss of \$28.3 million, offset by non-cash expenses that included \$5.9 million of stock-based compensation and \$4.9 million of depreciation and amortization. Working capital sources of cash included a decrease of \$14.7 million in accounts receivable, primarily due to collections on transactions originating in the fourth quarter of 2014. These sources of cash were offset by a \$3.0 million decrease in deferred revenue, a \$1.0 million net decrease in accounts payable, accrued expenses and deferred rent, and a \$2.2 million increase in prepaid expenses and other current assets.

Investing Activities

Our investing activities have consisted primarily of purchases, sales and maturities of available-for-sale securities, property and equipment purchases for computer-related equipment, leasehold improvements to leased office facilities and capitalization of software development costs. Capitalized software development costs are related to new applications or improvements to existing software platform that expands the functionality for customers.

Net cash used in investing activities during the nine months ended September 30, 2016 consisted primarily of \$10.8 million in purchases of available-for-sale securities, and \$3.5 million of purchased property and equipment and capitalized software development costs, offset by \$6.2 million of cash maturities from available-for-sale securities, and \$2.5 million from the release of restricted cash.

Net cash provided by investing activities during the nine months ended September 30, 2015 was \$4.9 million, consisting primarily of \$13.3 million of cash maturities from available-for-sale securities, offset by \$6.6 million of purchased property and equipment and capitalized software development costs, and \$2.0 million in purchases of available-for-sale securities.

Financing Activities

Our financing activities consisted primarily of proceeds from our IPO and debt borrowings to fund operations and, to a lesser extent, proceeds from the exercise of options. Cash flows used in financing activities consist primarily of repayment of debt borrowings, payment of IPO costs, loan fees and repayment of capital leases.

Net cash provided by financing activities for the nine months ended September 30, 2016 consisted primarily of \$102.7 million of IPO proceeds, net of underwriting discounts, \$20.0 million in principal proceeds from term loan borrowings and \$1.0 million from

proceeds received from option exercises, offset by the repayment of \$20.0 million in principal payments on term loan borrowings, and payment of deferred IPO costs and loan fees of \$0.6 million.

Net cash provided by financing activities for the nine months ended September 30, 2015 consisted primarily of \$2.3 million of proceeds received from option exercises, offset by the payment of deferred initial public offering costs of \$0.4 million.

Contractual Obligations and Commitments

As of September 30, 2016, our principal obligations consisted of obligations under non-cancellable operating leases that expire at various dates through 2023. There have been no material changes in our principal lease commitments compared to those in Management's Discussion and Analysis of Financial Condition and Results of Operations previously disclosed in the Prospectus.

Other commitments include certain other non-cancellable agreements for software and marketing services that specify all significant terms, including fixed or minimum services to be used, pricing provisions and the approximate timing of the transaction. Obligations under contracts that are cancellable are not included. There have been no material changes for commitments compared to those discussed Management's Discussion and Analysis of Financial Condition and Results of Operations included in the Prospectus.

Off-Balance Sheet Arrangements

During the nine months ended September 30, 2016 we did not have any relationships with unconsolidated organizations or financial partnerships, such as structured finance or special purpose entities that would have been established for the purpose of facilitating off-balance sheet arrangements.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations are based upon our financial statements which have been prepared in accordance with U.S. generally accepted accounting principles, or GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets and liabilities and related disclosure of contingent assets and liabilities, revenue and expenses at the date of the financial statements. Generally, we base our estimates on historical experience and on various other assumptions in accordance with GAAP that we believe to be reasonable under the circumstances. Actual results may differ from these estimates.

Critical accounting policies and estimates are those that we consider the most important to the portrayal of our financial condition and results of operations because they require our most difficult, subjective or complex judgments, often as a result of the need to make estimates about the effect of matters that are inherently uncertain. Our critical accounting policies and estimates include those related to:

- revenue recognition;
- stock-based compensation;
- common stock valuations;
- income taxes; and
- capitalized internal use software.

There have been no material changes to our critical accounting policies and estimates as previously disclosed in the Prospectus.

Emerging Growth Company Status

As an "emerging growth company," or EGC, the Jump-start Our Business Start-ups Act, or JOBS Act, allows us to delay adoption of new or revised accounting pronouncements applicable to public companies until such pronouncements are made applicable to private companies. We have elected to use this extended transition period under the JOBS Act. As a result, our financial statements may not be comparable to the financial statements of issuers who are required to comply with the effective dates for new or revised accounting standards that are applicable to public companies, which may make our common stock less attractive to investors.

Recently Issued Accounting Pronouncements

See Note 1 of the notes to our unaudited condensed consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for a summary of recently issued and adopted accounting pronouncements.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Foreign Currency Exchange Risk

Due to our international operations, we have foreign currency risks related to revenue and operating expenses denominated in currencies other than the U.S. dollar, primarily the British Pound Sterling, Euro and Australian dollar. Our sales contracts are primarily denominated in the local currency of the customer making the purchase. In addition, a portion of operating expenses are incurred outside the United States and are denominated in foreign currencies. Additionally, subscription fees are largely based on customers' anticipated spend as expressed in U.S. dollars as managed by our system, which fee construct may increase the exposure of revenue to currency fluctuations. Decreases in the relative value of the U.S. dollar to other currencies may negatively affect revenue and other operating results as expressed in U.S. dollars. We do not believe that an immediate 10% increase or decrease in the relative value of the U.S. dollar to other currencies would have a material effect on operating results.

We have experienced and will continue to experience fluctuations in net loss as a result of transaction gains or losses related to remeasuring certain current asset and current liability balances that are denominated in currencies other than the functional currency of the entities in which they are recorded. We have not engaged in the hedging of foreign currency transactions to date. We are evaluating the costs and benefits of initiating such a program and may in the future hedge selected significant transactions denominated in currencies other than the U.S. dollar as we expand international operations.

Interest Rate Sensitivity

We hold cash and cash equivalents for working capital purposes. We do not have material exposure to market risk with respect to investments, as any investments we enter into are primarily highly liquid investments. We have a senior credit facility providing for up to \$15.0 million in revolver borrowings, which had no amounts outstanding as of September 30, 2016. Interest accrues on the revolver borrowings at a floating rate equal to the prime rate. A 10% increase or decrease in interest rates would not result in a material change in either our obligations under the senior credit facility, even at the borrowing limit, or in the returns on our cash.

Item 4. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our principal executive officer and principal financial officer, has evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, as of the end of the period covered by this Quarterly Report on Form 10-Q. Based on such evaluation, our principal executive officer and principal financial officer have concluded that as of such date, our disclosure controls and procedures were effective.

Changes in Internal Control

There were no changes in our internal control over financial reporting in connection with the evaluation required by Rules 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the period covered by this Quarterly Report on Form 10-Q that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Inherent Limitations on Effectiveness of Controls

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

PART II—OTHER INFORMATION

Item 1. Legal Proceedings.

As of the date of this quarterly report, we are not a party to any material legal proceedings. In the normal course of business, we may be named as a party to various legal claims, actions and complaints. We cannot predict whether any resulting liability would have a material adverse effect on our financial position, results of operations or cash flows.

Item 1A. Risk Factors.

Risks Related to Our Business and Industry

We have a history of losses and we expect our revenue growth rate to decline. As our costs increase, we may not be able to generate sufficient revenue to achieve or maintain profitability in the future.

We incurred net losses of \$23.7 million, \$32.9 million and \$41.0 million in 2013, 2014 and 2015, respectively, and \$28.3 million and \$23.6 million in the nine months ended September 30, 2015 and 2016, respectively. We had an accumulated deficit of \$192.4 million at September 30, 2016. We expect that our revenue growth rate will decline over time. We may not be able to generate sufficient revenue to achieve or sustain profitability. We expect to continue to incur losses for the foreseeable future and we expect our costs to increase in future periods as we expend substantial financial and other resources on, among other things:

- sales and marketing, including a continued expansion of our direct sales organization, which will require time before these investments generate sales results;
- hiring of additional employees for our research and development team to support growth, our technology and datacenter infrastructure, enhancements to our cloud architecture, improved disaster recovery protection, increasing security, compliance and operations expenses, and expenses related to required certifications and third-party attestations;
- other software development, including enhancements and modifications related to our business applications, including investments in our software development team;
- international expansion in an effort to increase our customer base and sales;
- continued growth of the customer success team; and
- general and administration, including significantly increasing expenses in accounting and legal related to the increase in the sophistication and resources required for public company compliance and other work arising from the growth and maturity of the company.

These expenditures may not result in additional revenue or the growth of our business. If we fail to continue to grow revenue or to achieve or sustain profitability, the market price of our Class A common stock could decline.

We have a limited operating history, which makes it difficult to evaluate our prospects and future operating results.

We were incorporated in 2007 and introduced our first solution in 2008. Our limited operating history makes our ability to forecast future operating results difficult and subjects us to a number of uncertainties, including our ability to plan and model future growth. Our revenue grew 46%, 45% and 21% in 2013, 2014 and 2015, respectively, compared to the prior year, and by 23% in the nine months ended September 30, 2016 compared to the same period in the prior year; however, our historical revenue growth is not necessarily indicative of our future performance. Our revenue growth is expected to decline in future periods due to a number of reasons, which may include the maturation of our business, increase in overall revenue over time, slowing demand for our applications, increasing competition, a decrease in the growth of the markets in which we compete, or if we fail, for any reason, to continue to capitalize on growth opportunities, a decrease in our renewal rates, or a decline in available opportunities as a result of our increased market penetration in one or more of our markets.

We have encountered and will continue to encounter risks and uncertainties frequently experienced by growing companies in rapidly changing industries, such as determining appropriate investments of our limited resources, market adoption of our current and future applications, competition from other companies, acquiring and retaining customers, hiring, integrating, training and retaining skilled personnel, developing new applications, determining prices and contract terms for our applications, and unforeseen expenses and challenges in forecasting accuracy. If our assumptions regarding these risks and uncertainties, which we use to plan our business, are incorrect or change, or if we do not address these risks successfully, our prospects, operating results and business could be harmed.

If the TBM market fails to develop, or we are unable to maintain our leadership within that market category, our business, results of operations, financial condition and growth prospects could be harmed.

Our business model depends upon the development and adoption of the market for TBM solutions and our leadership within that market category. We derive and expect to continue to derive for some period of time the majority of revenue and cash flows from our core TBM solutions. The TBM market is relatively new and is evolving rapidly, and overall market acceptance of the importance of TBM and our solutions is critical to our continued success. If the market for TBM solutions does not continue to grow, or grows more slowly than we expect, or if the market for TBM solutions does not develop as we anticipate, our operating results would be harmed. In addition, successful market adoption will depend in part on our ability to correctly anticipate, identify and build the key features, functions, reports, metric selection, and packaging that is most useful and attractive to the market, all while maintaining sufficient flexibility with the platform as needed to accommodate customer-specific needs.

We derive, and expect to continue to derive, substantially all of our revenue and operating cash flows from TBM solutions and related professional services. If we fail to adapt our solutions to changing market dynamics and customer preferences or to achieve increased market acceptance of our TBM solutions, our business, results of operations, financial condition, and growth prospects would be harmed.

We derive, and expect to continue to derive, substantially all of our revenue and cash flows from TBM solutions and related professional services. As such, the market acceptance of TBM solutions is critical to our success. Demand for our TBM solutions is affected by a number of factors, many of which are beyond our control, such as continued market acceptance of our solutions by customers for existing and new use cases, the timing of development and release of new applications, features, and functionality introduced by our competitors, technological change, and growth or contraction in our addressable market. Although we may expand our efforts in the marketplace beyond the TBM category, there can be no certainty that any such expansion will generate returns capable of offsetting the costs associated with any such expansion. You should consider our business and prospects based on our current solutions within the TBM category and, in light of the various challenges we and TBM as a category face, including those discussed in this “Risk Factors” section.

Our business model heavily depends on the acquisition of new customers, adoption by current customers of our solutions, renewals of their subscriptions and the purchase of additional subscriptions from us.

In order to maintain or improve our operating results, we depend on the acquisition of new customers, the adoption of additional applications by existing customers and the decision by existing and new customers to renew their subscriptions upon the expiration of their current contract term. Our contracts typically vary in length between one and three years and our customers have no obligation to renew their subscriptions after the expiration of their initial subscription periods. Our customers may elect not to renew, may seek to renew for lower subscription amounts or for shorter contract lengths, and may choose to renew for the same or fewer applications and modules over time. Our renewal rates may decline or fluctuate as a result of a number of factors, including leadership changes within our customers resulting in loss of sponsorship, limited customer resources, pricing changes by us or our competitors, adoption and utilization of our solutions by our customers, customer satisfaction with our applications, the acquisition of our customers by other companies, procurement or budgetary decisions from legislative or other regulatory bodies, and deteriorating general economic conditions. To the extent our customer base continues to grow, renewals and the subscriptions to additional applications and modules by renewing customers will become an increasingly important part of our results. If our customers do not renew their subscriptions for our applications, or decrease the amount they spend with us, revenue will decline and our business will be harmed.

Because our recent growth has resulted in the rapid expansion of our business, we do not have a long history upon which to base forecasts of customer renewal rates, customer upgrade rates or future revenue. As a result, our future operating results may be significantly below the expectations of investors, which could harm the market price of our Class A common stock.

If we fail to effectively develop and expand our sales and marketing capabilities, our ability to increase our customer base and increase acceptance of our TBM solutions could be harmed.

To increase the number of customers and increase the market acceptance of our solutions, we will need to expand our sales and marketing operations, including our domestic and international sales force. We will continue to dedicate significant resources to sales and marketing programs. We believe that there is significant competition for direct sales personnel with the sales skills and technical knowledge that we require. Our ability to achieve significant revenue growth in the future will depend, in large part, on our success in recruiting, training and retaining a sufficient number of direct sales personnel. New hires require significant training and time before they achieve full productivity, particularly in new sales territories. Our recent hires and planned hires may not become as productive as quickly as we would like, and we may be unable to hire or retain sufficient numbers of qualified individuals in the future in the markets where we do business. The effectiveness of our sales and marketing has also varied over time and, together with the effectiveness of any partners or resellers we may engage, may vary in the future. Our business will be harmed if our efforts do not

generate a correspondingly significant increase in revenue. We may not achieve anticipated revenue growth from expanding our sales force if we are unable to hire, develop and retain talented sales personnel, if our new sales personnel are unable to achieve desired productivity levels in a reasonable period of time, or if our sales and marketing programs are not effective.

We may experience quarterly fluctuations in our operating results due to a number of factors, which makes our future results difficult to predict and could cause our operating results to fall below expectations.

Our quarterly operating results have fluctuated in the past and we expect them to fluctuate in the future due to a variety of factors, many of which are outside of our control. As a result, our past results may not be indicative of our future performance, and comparing our operating results on a period-to-period basis may not be meaningful. In addition to the other risks described in this report, factors that may affect our quarterly operating results include:

- changes in spending on TBM solutions by our current or prospective customers;
- pricing our applications effectively so that we are able to attract and retain customers without compromising our operating results;
- attracting new customers and increasing existing customers' use of our solutions;
- unexpected sales and transaction execution delays;
- customer renewal rates and the amounts for which agreements are renewed;
- awareness of our brand;
- changes in the competitive dynamics of our market, including consolidation among competitors or customers and the introduction of new applications or capabilities;
- changes to the commission plans, quotas and other compensation-related metrics for our sales representatives;
- the amount and timing of payment for operating expenses, particularly research and development, sales and marketing expenses and employee benefit expenses;
- our ability to manage our existing business and future growth, including increases in the number of customers for our solutions and the introduction and adoption of our solutions in the United States and globally;
- unforeseen costs and expenses related to the expansion of our business, operations and infrastructure, including disruptions in our hosting network infrastructure and privacy and data security;
- the level of international sales and the pricing of sales;
- foreign currency exchange rate fluctuations; and
- general economic and political conditions in our domestic and international markets.

We may not be able to accurately forecast the amount and mix of future subscriptions, size or duration of contracts, revenue and expenses and, as a result, our operating results may fall below our estimates or the expectations of public market analysts and investors. If our revenue or operating results fall below the expectations of investors, or below any estimates we may provide, the market price of our Class A common stock could decline.

We target sales efforts at enterprise customers and the length, cost and uncertainty associated with sales cycles may result in fluctuations in our operating results and our failure to achieve the expectations of investors.

We target sales efforts at enterprises and face long sales cycles, complex customer requirements, substantial upfront sales costs, and a relatively low and difficult to predict volume of sales on a quarter-by-quarter basis. This makes it difficult to predict with certainty our sales and related operating performance in any given period. Our typical sales cycle is approximately six months, but is variable and difficult to predict and can be longer. Customers often undertake a prolonged evaluation of our solutions, including assessing their own readiness, scoping the professional services involved, and comparing our solutions to products offered by our competitors and their ability to solve the problem internally. Moreover, our customers often begin to deploy our solutions on a limited basis, but nevertheless demand extensive configuration, integration services and pricing concessions, which increase our upfront investment in the sales effort with no guarantee that these customers will deploy our solutions widely enough across their organization to justify our substantial upfront investment. Adherence to our financial plan in part depends on a predictable growth rate in the acquisition of new customers that represent high annual contract value, while additional growth and enhanced predictability in part depends on an increased volume of new customers with a relatively lower annual contract value. Our financial performance and the

predictability of our quarterly financial results may be harmed by intermittent failures to secure the higher value enterprise agreements, or increase the volume of transactions overall, according to our forecasts, and depends in large part on the successful execution of our direct sales team. In addition, because of the relatively small and tightly knit nature of the community of IT leaders within the enterprises that we sell into, our business is vulnerable to negative feedback or opinions even if held by a few influential leaders within this community.

Additionally, our quarterly sales cycles are generally more heavily weighted toward the end of the quarter with an increased volume of sales in the last few weeks of the quarter. This could negatively impact the timing of recognized revenue and billings, cash collections and delivery of professional services in subsequent periods. Furthermore, the concentration of contract negotiations in the last few weeks of the quarter could require us to expend more in the form of compensation for additional sales, legal and finance employees and contractors. Compression of sales activity to the end of the quarter also greatly increases the likelihood that sales cycles will extend beyond the quarter in which they are forecasted to close for some sizeable transactions, which will harm forecasting accuracy and adversely impact billings and new customer acquisition metrics for the quarter in which they are forecasted to close.

Because we recognize revenue from subscriptions ratably over the term of the agreement, near-term changes in sales may not be reflected immediately in our operating results.

We offer our applications primarily through multi-year subscription agreements, which typically vary in length between one and three years. All subscription fees that are billed in advance of service are recorded in deferred revenue. Subscription revenue is recognized ratably over the subscription term. As a result, most of the revenue that we report in each period is derived from the recognition of deferred revenue relating to subscriptions entered into during previous periods. A decline in new or renewed subscriptions in any one quarter is not likely to have a material impact on results for that quarter. However, declines would negatively affect revenue and deferred revenue balances in future periods, and the effect of significant downturns in sales and market acceptance of our applications, and potential changes in our rate of renewals, 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 total revenue through additional sales in any period, as revenue from new customers is recognized over the applicable subscription term.

Because we expense commissions associated with subscriptions to our applications immediately upon the execution of a subscription agreement with a customer, our operating income in any period may not be indicative of our financial health and future performance.

We expense commissions paid to sales personnel in the period in which we enter into an agreement for the subscription to our applications. In contrast, we recognize the revenue associated with a subscription to our applications ratably over the related subscription period. Although we believe higher sales is a positive indicator of the long-term health of our business, higher sales increases our operating expenses and could decrease earnings in any particular period. Thus, we may report poor operating results due to higher sales commissions in a period in which we experience strong sales of our applications. Alternatively, we may report better operating results due to the reduction of sales commissions in a period in which we experience a slowdown in sales. Therefore, you should not necessarily rely on our operating income during any one quarter as an indication of our financial health and potential future performance.

If we fail to attract and retain additional qualified personnel we may be unable to execute our business strategy.

To execute our business strategy, we must attract and retain highly qualified personnel. In particular, we compete with many other companies for software developers with high levels of experience in designing, developing and managing cloud-based software, as well as for skilled product development, marketing, sales and operations professionals, and we may not be successful in attracting and retaining the professionals we need, in particular in the Seattle, Washington area where we are headquartered. We have experienced, and we expect to continue to experience, difficulty in hiring and retaining highly skilled employees with appropriate qualifications which may, among other things, impede our ability to execute our software development and sales strategies. Many of the companies with which we compete for experienced personnel are more well-known and have greater resources than we do. In addition, in making employment decisions, particularly in the software industry, job candidates often consider the value of the stock options or other equity incentives they are to receive in connection with their employment. If the price of our stock declines, or experiences significant volatility, our ability to attract or retain qualified employees will be adversely affected. If we fail to attract new personnel or fail to retain and motivate our current personnel, our growth prospects could be harmed.

The market in which we participate is increasingly competitive, and if we do not compete effectively, our operating results could be harmed.

The market for TBM solutions is relatively new and rapidly evolving. In many cases, our primary competition is the use of legacy spreadsheet-based business processes, or occasionally we encounter either custom software developed, or general purpose

business intelligence solutions repurposed, by in-house IT and finance departments of our potential customers to meet specific business needs. As we look to sell our solutions to potential customers with existing internal solutions, we must convince internal stakeholders that our TBM solutions are superior to the legacy solutions that the organization has previously adopted. If we are unable to effectively convince internal stakeholders at our prospective customers to abandon their legacy solutions, our business, results of operations, financial condition and cash flows could be materially and adversely affected.

Larger companies, such as VMware and ServiceNow, provide a suite of products and services that includes TBM capabilities. These competitors have greater name recognition, much longer operating histories, more and better-established customer relationships, larger sales forces, larger marketing and software development budgets and significantly greater resources than we do. These large vendors commonly have an enterprise-wide license agreement in place with the Fortune 2000 enterprise company customer base and are able to leverage that license to easily transact for their services. In some cases, these large vendors may be willing to provide their competing software for free as part of enterprise-wide agreements that include other products or services, which has resulted in pricing pressures and lost sales. Further, such large vendors frequently benefit from existing system integrator and other go-to-market relationships that facilitate their sales and marketing efforts, and that can be easily redirected to competition with us in the TBM market. In addition, certain of our competitors may be able to respond more quickly and effectively than we can to new or changing opportunities, technologies, standards, or customer requirements, or simply accelerate product development and improvements at greater velocity.

Several specialized companies target the TBM market through solutions that are tailored to a specific TBM use case or industry. Some of our principal competitors in these situations offer their products or services at a lower price, which has resulted in pricing pressures and lost sales. Potential customers with discrete and immediate needs that may be addressed by these niche solutions may choose to deploy these solutions instead of an offering from our integrated suite of TBM solutions. If we fail to compete effectively against these more specific, niche providers of TBM solutions, our business will be harmed.

We expect competition to intensify in the future. We expect that the large software vendors who currently do not have an offering in the TBM category, some of which operate in adjacent product categories today, may in the future bring such a solution to market through product development, acquisitions or other means. Such vendors would potentially benefit from the same advantages described above regarding our existing larger competitors, but perhaps on an even greater scale. Also, a simpler solution could gain traction in the market and acceptance by medium sized businesses, which may result in downward pressure on our pricing and potentially a decrease in market share and market opportunity for us.

If we fail to adapt and respond effectively to rapidly changing technology, evolving industry standards and changing customer needs or requirements, our solutions may become less competitive.

Our success depends on our ability to adapt and enhance our solutions. To attract new customers and increase revenue from existing customers, we need to continue to enhance and improve our solutions, capabilities and enhancements to meet customer needs at prices that our customers are willing to pay. Such efforts will require adding new functionality and responding to technological advancements, which will increase our research and development costs. If we are unable to develop solutions that address customers' needs, or enhance and improve our offerings in a timely manner, we may not be able to maintain or increase market acceptance of our solutions. Further, many of our existing and potential future competitors expend a considerably greater amount of funds on their research and development programs, and those that do not may be acquired by larger companies that would allocate greater resources to competitors' research and development programs. If we fail to maintain adequate research and development resources or compete effectively with the research and development programs of our competitors our business could be harmed. Our ability to grow is also subject to the risk of future disruptive technologies. If new technologies emerge that are able to deliver TBM solutions at lower prices, more efficiently, more conveniently or more securely, such technologies could adversely affect our ability to compete.

We may not receive significant revenue from our current development efforts for several years, if at all.

Developing software applications is expensive and the investment in product development often involves a long return on investment cycle. We have made and expect to continue to make significant investments in development and related product opportunities. Accelerated product introductions and short product life cycles require high levels of expenditures that could adversely affect our operating results if not offset by revenue increases. We believe that we must continue to dedicate a significant amount of resources to our development efforts to maintain our competitive position. However, we may not receive significant revenue from these investments for several years, if at all.

Our planned further expansion of our business outside the United States exposes us to risks associated with international operations.

Our growth strategy involves the further expansion of our operations and customers located outside of the United States. For the nine months ended September 30, 2015 and 2016, 22% and 25%, respectively, of our revenue was derived from customers located outside North America, primarily from customers in Europe. A key element of our growth strategy is to expand our international operations and develop a worldwide customer base. While we have initiated efforts to expand our business into Asia-Pacific through a limited presence in Australia and Singapore, our investment may never be recouped. Our current international operations and future initiatives will involve a variety of risks, including:

- the need to make significant investments in people, solutions and infrastructure, typically well in advance of revenue generation;
- the need to localize and adapt our application for specific countries, including translation into foreign languages and associated expenses;
- potential changes in public or customer sentiment regarding cloud-based services or the ability of non-local enterprises to provide adequate data protection, particularly in the European Union;
- technical or latency issues in delivering our applications;
- dependence on certain third parties, including resellers with whom we do not have extensive experience;
- the lack of reference customers and other marketing assets in regional markets that are new or developing for us, as well as other adaptations in our market generation efforts that we may be slow to identify and implement;
- unexpected changes in regulatory requirements, taxes or trade laws;
- differing labor regulations, especially in the European Union, where labor laws are generally more advantageous to employees as compared to the United States, including deemed hourly wage and overtime regulations in these locations;
- challenges inherent in efficiently managing an increased number of employees over large geographic distances, including the need to implement appropriate systems, policies, benefits and compliance programs;
- difficulties in maintaining our company culture with a dispersed and distant workforce;
- difficulties in managing a business in new markets with diverse cultures, languages, customs, legal systems, alternative dispute systems and regulatory systems;
- currency exchange rate fluctuations and the resulting effect on our revenue and expenses, and the cost and risk of entering into hedging transactions if we choose to do so in the future;
- limitations on our ability to reinvest earnings from operations in one country to fund the capital needs of our operations in other countries;
- limited or insufficient intellectual property protection;
- political instability or terrorist activities;
- requirements to comply with foreign privacy and information security laws and regulations and the risks and costs of non-compliance;
- likelihood of potential or actual violations of domestic and international anticorruption laws, such as the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act, or of U.S. and international export control and sanctions regulations, which likelihood may increase with an increase of sales or operations in foreign jurisdictions and operations in certain industries;
- requirements to comply with U.S. export control and economic sanctions laws and regulations and other restrictions on international trade;
- likelihood that the United States and other governments and their agencies impose sanctions and embargoes on certain countries, their governments and designated parties, which may prohibit the export of certain technology, products, and services to such persons; and
- adverse tax burdens and foreign exchange controls that could make it difficult to repatriate earnings and cash should we desire to do so.

Our limited experience in operating our business internationally increases the risk that any potential future expansion efforts that we may undertake will not be successful. If we invest substantial time and resources to expand our international operations and are unable to do so successfully and in a timely manner, our business and operating results will be harmed.

Increased sales to customers outside the United States and/or paid for in currency other than the U.S. dollar exposes us to potential currency exchange losses.

As our international sales and operations increase, so too will the number and significance of transactions, including intercompany transactions, occurring in currencies other than the U.S. dollar. In addition, our international subsidiaries may begin to maintain or accumulate assets that are denominated in currencies other than the functional operating currencies of these entities. Accordingly, changes in the value of foreign currencies relative to the U.S. dollar can affect our revenue and operating results due to transactional and translational remeasurement that is reflected in our earnings. We do not currently maintain a program to hedge transactional exposures in foreign currencies. However, in the future, we may use derivative instruments, such as foreign currency forward and option contracts, to hedge certain exposures to fluctuations in foreign currency exchange rates. The use of such hedging activities may not offset any or more than a portion of the adverse financial effects of unfavorable movements in foreign exchange rates over the limited time the hedges are in place. Moreover, the use of hedging instruments may introduce additional risks if we are unable to structure effective hedges with such instruments. Additionally, our license fees are largely based on our customers' anticipated spend managed by our solutions expressed in U.S. dollars, which fee construct may increase the exposure of our revenue to currency fluctuations.

If we fail to manage our rapid growth effectively, or our business does not grow as we expect, our operating results may suffer.

Our employee base and operations have grown substantially in a relatively short period of time. Our full-time employee base grew from 637 employees as of September 30, 2015 to 709 employees as of September 30, 2016. Our growth has placed, and will continue to place, a significant strain on our operational, financial and management infrastructure. We anticipate further increases in headcount will be required to support increases in our application offerings and continued expansion. To manage this growth effectively, we must continue to improve operational, financial and management systems and controls by, among other things:

- effectively attracting, training and integrating a large number of new employees, particularly technical personnel and members of our management and sales teams;
- further improving key business systems, processes and IT infrastructure to support our business needs;
- enhancing information and communication systems to ensure that employees are well-coordinated and can effectively communicate with each other and customers; and
- improving internal control over financial reporting and disclosure controls and procedures to ensure timely and accurate reporting of operational and financial results.

If we fail to effectively manage expansion or implement new systems, or if we fail to implement improvements or maintain effective internal controls and procedures, costs and expenses may increase more than expected and we may not expand our customer base, increase renewal rates, enhance existing applications, develop new applications, satisfy customers, respond to competitive pressures, or otherwise execute our business plan. If we are unable to effectively manage our growth, our operating results will be harmed.

Our growth strategy depends in part on the success of our strategic relationships with third parties and their continued performance and alignment.

To continue our growth we will need to continue to develop various third-party relationships. In particular, our growth strategy depends on continuing to develop successful go-to-market partnerships with key technology, system integrator and consultant partners both domestically and internationally to help validate our solutions and provide introductions to certain potential customers, and in some cases to resell our solutions, or provide professional services related to them. Failure to successfully develop and implement strategic third-party relationships with resellers, technology providers and service providers could significantly harm our operating results. For example, results may suffer if efforts towards developing our go-to-market relationships consume resources and incur costs, but do not result in a commensurate increase in revenue for us. We also may enter into relationships with other businesses to expand our solutions or our ability to provide our solutions in international locations, which could involve preferred or exclusive licenses, additional channels of distribution, discount pricing or investments in other companies. The cost of developing and maintaining such relationships may go unrecovered or unrewarded.

If we fail to offer high-quality professional services and support, our business and reputation may suffer. If we fail to reduce the cost of those services, our operating results may be harmed.

High-quality professional services and support, including training, implementation and consulting services, are important for the successful marketing, sale and use of our solutions and for the renewal of subscriptions by existing customers. The importance of high-quality professional services and support will increase as we expand our business and pursue new customers. If we do not provide effective ongoing support, our ability to retain and sell additional functionality and applications or modules to existing customers may suffer, and our reputation with existing or potential customers may be harmed.

At the same time, these services are provided at relatively high cost to us with resulting fees to the customer. These factors may negatively impact the future revenue growth for our solutions or lengthen the sales cycle, either of which would be detrimental to our business. We continue to pursue strategies to reduce the amount of professional services required for a customer to begin to use and gain value from our solutions, lower the overall costs of professional service fees to our customers, and improve the gross margin of our professional services business. If we are unable to successfully accomplish these objectives, our operating results, including our profit margins, may be harmed.

We rely on our management team and other key employees, and the loss of one or more key employees could harm our business.

Our success and future growth depend upon the continued services of our management team, including Sunny Gupta, one of our founders and our chief executive officer, and other key employees in the areas of engineering, marketing, sales, services and general and administrative functions. From time to time, there may be changes in our management team resulting from the hiring or departure of executives, which could disrupt our business. We also are dependent on the continued service of our existing software engineers and information technology personnel because of the complexity of our software, technologies and infrastructure. We may terminate any employee's employment at any time, with or without cause, and any employee may resign at any time, with or without cause. We do not maintain any "key man" insurance for any employee. The loss of one or more of our management team members or key employees could harm our business.

If our network or computer systems are breached or unauthorized access to customer data is otherwise obtained, our applications may be perceived as insecure and we may lose existing customers or fail to attract new customers, our reputation may be damaged and we may incur significant liabilities.

Our operations involve the storage and transmission of our customers' sensitive and proprietary information. Cyber-attacks and other malicious internet-based activity continue to increase generally, and cloud-based platform providers of software and services have been targeted. If any unauthorized access to or security breaches of our platform, or those of our service providers, occurs, or is believed to have occurred, such an event or perceived event could result in the loss of data, loss of intellectual property, loss of business, severe reputational or brand damage adversely affecting customer or investor confidence, regulatory investigations and orders, litigation, indemnity obligations, damages for contract breach, penalties for violation of applicable laws, regulations, or contractual obligations, and significant costs for remediation that may include liability for stolen assets or information and repair of system damage that may have been caused, incentives offered to customers or other business partners in an effort to maintain business relationships after a breach, and other liabilities. Additionally, any such event or perceived event could impact our reputation, harm customer confidence, hurt our sales and expansion into existing and new markets, or cause us to lose existing customers. We could be required to expend significant capital and other resources to alleviate problems caused by such actual or perceived breaches and to remediate our systems, we could be exposed to a risk of loss, litigation or regulatory action and possible liability, and our ability to operate our business may be impaired. Additionally, actual, potential or anticipated attacks may cause us to incur increasing costs, including costs to deploy additional personnel and protection technologies, train employees and engage third-party experts and consultants.

In addition, if the security measures of our customers are compromised, even without any actual compromise of our own systems, we may face negative publicity or reputational harm if customers or anyone else incorrectly attributes the blame for such security breaches to us or our systems. If customers believe that our applications do not provide adequate security for the storage of personal or other sensitive information or its transmission over the internet, our business will be harmed. Customers' concerns about security or privacy may deter them from using our platform for activities that involve personal or other sensitive information.

Our errors and omissions insurance covering certain security and privacy damages and claim expenses may not be sufficient to compensate for all liability. Although we maintain insurance for liabilities incurred as a result of some security and privacy damages, we cannot be certain that our coverage will be adequate for liabilities actually incurred or that insurance will continue to be available to us on economically reasonable terms, or at all. Because the techniques used and vulnerabilities exploited to obtain unauthorized access or to sabotage systems change frequently and generally are not identified until they are launched against a target, we may be

unable to anticipate these techniques or vulnerabilities or implement adequate preventative measures. We may also experience security breaches that may remain undetected for an extended period.

Because data security is a critical competitive factor in our industry, we make public statements in our privacy policies, on our website, and elsewhere describing the security of our platform. Should any of these statements be untrue, become untrue, or be perceived to be untrue, even if through circumstances beyond our reasonable control, we may face claims, including claims of unfair or deceptive trade practices, brought by the U.S. Federal Trade Commission, state, local, or foreign regulators, and private litigants.

Interruptions or performance problems associated with our technology and infrastructure may adversely affect our business and operating results.

Our continued growth depends in part on the ability of our existing and potential customers to access our applications at any time. We have experienced, and may in the future experience, disruptions, outages, and other performance problems due to a variety of factors, including infrastructure changes, introductions of new capabilities, human or technology errors, distributed denial of service attacks, or other security related incidents. In some instances, we may not be able to identify the cause or causes of these performance problems within an acceptable period of time. It may become increasingly difficult to maintain and improve our performance, especially during peak usage times and as our platform becomes more complex and our user traffic increases. If our applications are unavailable or if our users are unable to access our applications within a reasonable amount of time, or at all, our business will be harmed.

Moreover, our customer agreements often include performance guarantees and service level standards that may obligate us to provide credits or termination rights in the event of a significant disruption in our platform. To the extent that our third-party service providers experience outages, or to the extent we do not effectively address capacity constraints, upgrade our systems as needed, and continually develop our technology and network architecture to accommodate actual and anticipated changes in technology, our business and operating results may be adversely affected.

Our use of “open source” software could negatively affect our ability to offer our applications and subject us to possible litigation.

Our applications use “open source” software that we, in some cases, have obtained from third parties. Open source software is generally freely accessible, usable and modifiable, and is made available to the general public on an “as-is” basis under the terms of a non-negotiable license. Use and distribution of open source software may entail greater risks than use of third-party commercial software. Open source licensors generally do not provide warranties or other contractual protections regarding infringement claims or the quality of the software. In addition, certain open source licenses, like the GNU Affero General Public License, or AGPL, may require us to offer for no cost the components of our software that incorporate the open source software, to make available source code for modifications or derivative works we create by incorporating or using the open source software, or to license our modifications or derivative works under the terms of the particular open source license. If we are required, under the terms of an open source license, to release the source code of our proprietary software to the public, our competitors could create similar applications with lower development effort and time, which ultimately could result in a loss of sales for us.

We may also face claims alleging noncompliance with open source license terms or infringement or misappropriation of proprietary software. These claims could result in litigation, require us to purchase a costly license or require us to devote additional research and development resources to re-engineer our applications, any of which would have a negative effect on our business and operating results, including being enjoined from the offering of the components of our software that contained the open source software. We could also be subject to suits by parties claiming ownership of what we believe to be open source software. Litigation could be costly for us to defend, have a negative effect on our operating results and financial condition and require us to devote additional research and development resources to re-engineer our applications.

Although we monitor our use of open source software to avoid subjecting our applications to unintended conditions, few courts have interpreted open source licenses, and there is a risk that these licenses could be construed in a way that could impose unanticipated conditions or restrictions on our ability to commercialize our applications. We cannot guarantee that we have incorporated open source software in our software in a manner that will not subject us to liability, or in a manner that is consistent with our current policies and procedures.

Our business is dependent upon our brand recognition and reputation, and if we fail to maintain or enhance our brand recognition or reputation, our business could be harmed.

We believe that maintaining and enhancing our brand and our reputation are critical to our relationships with our customers and to our ability to attract new customers. We also believe that our brand and reputation will be increasingly important as competition in

our market continues to develop. Our success in this area will depend on a wide range of factors, some of which are beyond our control, including the following:

- the efficacy of our marketing efforts;
- our ability to continue to offer high-quality, innovative and error- and bug-free applications;
- our ability to maintain the security and privacy of our customer's sensitive and proprietary information;
- our ability to retain existing customers and obtain new customers;
- our ability to maintain high customer satisfaction;
- the quality and perceived value of our applications;
- our ability to successfully differentiate our applications from those of our competitors;
- actions of competitors and other third parties;
- our ability to provide high quality customer support and professional services;
- any data breach or data loss or misuse or perceived misuse of our applications;
- positive or negative publicity;
- interruptions, delays or attacks on our platform or applications; and
- litigation, legislative or regulatory-related developments.

If our brand promotion activities are not successful, our operating results and growth may be harmed.

Furthermore, negative publicity, whether or not justified, relating to events or activities attributed to us, employees, partners or others associated with any of these parties, may tarnish our reputation and reduce the value of our brand. Damage to our reputation and loss of brand equity may reduce demand for our applications and have an adverse effect on our business, operating results and financial condition. Moreover, any attempts to rebuild our reputation and restore the value of our brands may be costly and time consuming, and such efforts may not ultimately be successful.

We are materially invested in the formation and growth of the TBM Council, and our efforts in that area may fail to have a positive effect on our overall growth.

We have invested a significant amount of our money and time into the formation and growth of the TBM Council. Our ability to help build that organization, maintain strong relationships with the individuals involved, and build a positive public profile of the TBM Council and our association with the council, may have an effect on our overall success. It is possible that our efforts in this area will not yield the results that we are anticipating or the benefits of such efforts will not offset the costs.

We rely upon data centers and other systems and technologies provided by third parties, and technology systems and electronic networks supplied and managed by third parties, to operate our business and interruptions or performance problems with these systems, technologies and networks may adversely affect our business and operating results.

We rely on data centers and other technologies and services provided by third parties in order to operate our business. If any of these services becomes unavailable or otherwise is unable to serve our requirements due to extended outages, interruptions, facility closure, or because it is no longer available on commercially reasonable terms, expenses could increase, our ability to manage finances could be interrupted and our operations otherwise could be disrupted or otherwise impacted until appropriate substitute services, if available, are identified, obtained, and implemented.

We do not control, or in some cases have limited control over, the operation of the data center facilities we use, and they are vulnerable to damage or interruption from earthquakes, floods, fires, power loss, telecommunications failures and similar events. They may also be subject to break-ins, sabotage, intentional acts of vandalism and similar misconduct, and to adverse events caused by operator error. We may not be able to rapidly switch to new data centers or move customers from one data center to another in the event of any adverse event. Despite precautions taken at these facilities, the occurrence of a natural disaster, an act of terrorism or other act of malfeasance, a decision to close the facilities without adequate notice or other unanticipated problems at these facilities could result in lengthy interruptions in our service and the loss of customer data.

Our ability to provide services and solutions to our subscribers also depends on our ability to communicate with our subscribers through the public internet and electronic networks that are owned and operated by third parties. In addition, in order to provide services on-demand and promptly, our computer equipment and network servers must be functional 24 hours per day, which requires access to telecommunications facilities managed by third parties and the availability of electricity, which we do not control. A severe disruption of one or more of these networks or facilities, including as a result of utility or third-party system interruptions, could impair our ability to process information and provide services to our customers.

Any unavailability of, or failure to meet our requirements by, third-party data centers or other third-party technologies or services, or any disruption of the internet or the third-party networks or facilities that we rely upon, could impede our ability to provide services to our subscribers, harm our reputation, result in a loss of subscribers, cause us to issue refunds or service credits to customers, subject us to potential liabilities, result in contract terminations, and adversely affect our renewal rates. Any of these circumstances could adversely affect our business and operating results.

Catastrophic events may disrupt our business and impair our ability to provide our solutions to our customers, resulting in costs for remediation, customer dissatisfaction, and other business or financial losses.

Our operations depend, in part, on our ability to protect our facilities against damage or interruption from natural disasters, power or telecommunications failures, criminal acts and similar events. Despite precautions taken at our facilities, the occurrence of a natural disaster, an act of terrorism, vandalism or sabotage, spikes in usage volume or other unanticipated problems at a facility could result in lengthy interruptions in the availability of our applications. Our headquarters are located in Bellevue, Washington, which is situated near active earthquake fault lines. Even with current and planned disaster recovery arrangements, our business could be harmed. Also, in the event of damage or interruption, our insurance policies may not adequately compensate us for any losses that we may incur. These factors in turn could further reduce revenue, subject us to liability and cause us to issue credits or cause customers to fail to renew their subscriptions, any of which could harm our business.

We may not timely and effectively scale our existing technology, including our computing architecture, to meet the performance and other requirements placed on our systems, which could increase expenditures unexpectedly and create risk of outages and other performance and quality of service issues for our customers.

Our future growth and renewal rates depend on our ability to meet our customers' expectations with respect to the speed and other performance attributes of our solutions, and to meet the expanding needs of our customers as their use of our solutions grows. The number of users, the amount and complexity of data ingested, created, transferred, processed and stored by us, the number of locations where our applications are being accessed, and the number of processes and systems managed by us on behalf of these customers, among other factors, separately and combined, can have an effect on the performance of our applications. In order to ensure that we meet the performance and other requirements of our customers, we continue to make significant investments to develop and implement new technologies in our software and infrastructure operations. These technologies, which include database, application and server advancements, revised network and hosting strategies, and automation, are often advanced, complex, and sometimes broad in scope and untested via industry-wide usage. We may not be successful in developing or implementing these technologies. To the extent that we do not develop offerings and scale our operations in a manner that maintains performance as our customers expand their use, our business and operating results may be harmed.

We may not accurately assess the capital and operational expenditures required to successfully fulfill our objectives and our financial performance may be harmed as a result. Further, we may make mistakes in the technical execution of these efforts to improve our solutions, which may affect our customers. Issues that may arise include performance (speed), data loss, and outages as well as other issues that could give rise to customer satisfaction issues, loss of business, and harm to our reputation. If any of these were to occur there would be a negative and potentially significant impact to our financial performance. Lastly, our ability to generate new applications, and improve our current solutions may be limited if and to the extent resources are necessarily allocated to address issues related to the performance of existing solutions.

Real or perceived errors, failures, or bugs in our applications could adversely affect our operating results and growth prospects.

We update our applications on a frequent basis. Despite efforts to test our updates, errors, failures or bugs may not be found in our applications until after they are deployed to our customers. We have discovered and expect we will continue to discover errors, failures and bugs in our applications and anticipate that certain of these errors, failures and bugs will only be discovered and remediated after deployment to customers. Real or perceived errors, failures or bugs in our applications could result in negative publicity, government inquiries, loss of or delay in market acceptance of our applications, loss of competitive position, or claims by customers for losses sustained by them. In such an event, we may be required, or may choose, for customer relations or other reasons, to expend additional resources in order to help correct the problem.

We implement bug fixes and upgrades as part of our regular system maintenance, which may lead to system downtime. Even if we are able to implement the bug fixes and upgrades in a timely manner, any history of inaccuracies in the data we collect for our customers, or the loss, damage or inadvertent release or exposure of confidential or other sensitive data could cause our reputation to be harmed and result in claims against us, and customers may elect not to purchase or renew their agreements with us or we may incur increased insurance costs. The costs associated with any material defects or errors in our applications or other performance problems may be substantial and could harm our operating results.

Because many of our customers use our applications to store and retrieve critical information, we may be subject to liability claims if our applications do not work properly. We cannot be certain that the limitations of liability set forth in our licenses and agreements would be enforceable or would otherwise protect us from liability for damages. A material liability claim against us, regardless of its merit or its outcome, could result in substantial costs, significantly harm our business reputation and divert management's attention from our operations.

We are subject to governmental laws, regulation and other legal obligations, particularly related to privacy, data protection and information security, and any actual or perceived failure to comply with such obligations could harm our business.

Personal privacy and information security are significant issues in the United States and the other jurisdictions where we offer our applications. The legislative and regulatory framework for privacy and security issues worldwide is rapidly evolving and is likely to remain uncertain for the foreseeable future. We collect personally identifiable information, or PII, and other data from our customers and users. Our handling of data is subject to a variety of laws and regulations, including regulation by various government agencies, including the U.S. Federal Trade Commission, or FTC, and various state, local and foreign agencies.

In the United States, the FTC and many state attorneys general are applying federal and state consumer protection laws to impose standards for the online collection, use and dissemination of data. Many foreign countries and governmental bodies, including the European Union, or EU, Canada, and other relevant jurisdictions where we conduct business, have laws and regulations concerning the collection and use of PII obtained from their residents or by businesses operating within their jurisdiction. These laws and regulations often are more restrictive than those in the United States. Laws and regulations in these jurisdictions apply broadly to the collection, use, storage, disclosure and security of data that identifies or may be used to identify or locate an individual, such as names, email addresses and, in some jurisdictions, Internet Protocol addresses. In the EU, where companies must meet specified privacy and security standards, Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, commonly referenced as the Data Protection Directive, and EU member state implementations of the Data Protection Directive, require comprehensive information privacy and security protections for consumers with respect to PII collected about them. The EU has adopted a General Data Protection Regulation, to supersede the Data Protection Directive. This regulation, which will become effective in 2018, would cause EU data protection requirements to be more stringent and to provide for greater penalties for noncompliance.

An October 2015 ruling of the Court of Justice of the EU, the EU's highest court, invalidated the U.S.-EU Safe Harbor Framework as a method of compliance with restrictions set forth in the Data Protection Directive (and member states' implementations thereof) regarding the transfer of data outside of the European Economic Area, or EEA. As a result of this ruling, we have entered into contractual provisions with certain European customers that impose additional obligations on us with respect to our handling of PII from the EEA. Additionally, U.S. and EU authorities reached a political agreement in February 2016 regarding a new potential means for legitimizing personal data transfers from the EEA to the U.S., the EU-U.S. Privacy Shield Framework, and we have joined the Privacy Shield Framework. We publicly post our privacy policies and practices concerning our processing, use and disclosure of PII. Our publication of our Privacy Shield filing, our privacy policy, and other statements we publish that provide promises and assurances about privacy and security can subject us to potential state and federal action if they are found to be deceptive or misrepresentative of our practices. Additionally, we may find it necessary or desirable to join industry or other self-regulatory bodies or other privacy-or data protection-related organizations that require compliance with their rules pertaining to privacy and data protection. We also may be bound by additional, more stringent contractual obligations relating to our collection, use and disclosure of PII and other data.

On June 23, 2016, the United Kingdom held a referendum and voted in favor of leaving the European Union, which has created uncertainty with regard to the regulation of data protection in the United Kingdom. In particular, it is unclear whether the United Kingdom will enact the pending European General Data Protection Regulation, or other data protection laws or regulations, and how data transfers to and from the United Kingdom will be regulated.

Although we are working to comply with those federal, state, and foreign laws and regulations, industry standards, contractual obligations and other legal obligations that apply to us, those laws, regulations, standards and obligations are evolving and may be modified, interpreted and applied in an inconsistent manner from one jurisdiction to another, and may conflict with one another, other requirements or legal obligations, our practices or the features of our applications or platform. Any failure or perceived failure by us to

comply with federal, state or foreign laws or regulations, industry standards, contractual obligations or other legal obligations, or any actual or suspected security incident, whether or not resulting in unauthorized access to, or acquisition, release or transfer of PII or other data, may result in governmental enforcement actions and prosecutions, private litigation, fines and penalties or adverse publicity and could cause our customers to lose trust in us, which could have an adverse effect on our reputation and business. Any inability to adequately address privacy and security concerns, even if unfounded, or comply with applicable laws, regulations, policies, industry standards, contractual obligations, or other legal obligations could result in additional cost and liability to us, damage our reputation, inhibit sales, and adversely affect our business.

We also expect that there will continue to be new proposed laws, regulations and industry standards concerning privacy, data protection and information security in the United States, the European Union and other jurisdictions, and we cannot yet determine the impact such future laws, regulations and standards may have on our business. Future laws, regulations, standards and other obligations, and changes in the interpretation of existing laws, regulations, standards and other obligations could impair our or our customers' ability to collect, use or disclose information relating to consumers, which could decrease demand for our applications, increase our costs and impair our ability to maintain and grow our customer base and increase revenue. New laws, amendments to or re-interpretations of existing laws and regulations, industry standards, contractual obligations and other obligations may require us to incur additional costs and restrict our business operations. Such laws and regulations may require companies to implement privacy and security policies, permit users to access, correct and delete personal information stored or maintained by such companies, inform individuals of security breaches that affect their personal information, and, in some cases, obtain individuals' consent to use PII for certain purposes. In addition, a foreign government could require that any PII collected in a country not be disseminated outside of that country, and we may face difficulty in complying with any such requirement for certain geographic regions. If we fail to comply with federal, state and international data privacy laws and regulations our ability to successfully operate our business and pursue our business goals could be harmed.

Third-party claims that we are infringing the intellectual property rights of others, whether successful or not, could subject us to costly and time-consuming litigation or require us to obtain expensive licenses, and our business could be harmed.

The technology industry is characterized by the existence of a large number of patents, copyrights, trademarks, trade secrets and other intellectual property rights. Companies in the technology industry must often defend against litigation claims based on allegations of infringement or other violations of intellectual property rights. Third parties, including our competitors, may own patents or other intellectual property rights that cover aspects of our technology or business methods and may assert patent or other intellectual property rights against us and others in the industry. Moreover, in recent years, individuals and groups that are non-practicing entities, commonly referred to as "patent trolls," have purchased patents and other intellectual property assets for the purpose of making claims of infringement in order to extract settlements. From time to time, we may receive threatening letters, notices or "invitations to license," or may be the subject of claims that our applications and business operations infringe or violate the intellectual property rights of others. Responding to such claims, regardless of their merit, can be time consuming, costly to defend in litigation, divert management's attention and resources, damage our reputation and brand and cause us to incur significant expenses. Claims of intellectual property infringement might require us to stop using technology found to infringe a third party's rights, redesign our application, which could require significant effort and expense and cause delays of releases, enter into costly settlement or license agreements or pay costly damage awards, or face a temporary or permanent injunction prohibiting us from marketing or selling our applications. If we cannot or do not license the infringed technology on reasonable terms or at all, or substitute similar technology from another source, we could be forced to limit or stop selling our applications, we may not be able to meet our obligations to customers under our customer contracts, revenue and operating results could be adversely impacted, and we may be unable to compete effectively. Additionally, our customers may not purchase our applications if they are concerned that they may infringe third-party intellectual property rights. The occurrence of any of these events may harm our business.

In our subscription agreements with our customers, we generally agree to indemnify our customers against any losses or costs incurred in connection with claims by a third party alleging that the customer's use of our applications infringes the intellectual property rights of the third party. Our customers who are accused of intellectual property infringement may seek indemnification from us. If any claim is successful, or if we are required to indemnify or defend our customers from any of these or other claims, these matters could be disruptive to our business and management and result in additional legal expenses.

The success of our business depends in part on our ability to protect and enforce our intellectual property rights.

Our success is dependent, in part, upon protecting our proprietary technology. Our issued patents, and any patents issued in the future, may not provide us with any competitive advantages or may be challenged by third parties, and our patent applications may never be granted. 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. Even if issued, there can be no assurance that these patents will 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 subsequently be invalidated or otherwise limited, allowing other companies to develop offerings that compete with ours, which could adversely affect our competitive business position, business prospects and financial condition. In addition, issuance of a patent does not guarantee that we have a right to practice the patented invention. Patent applications in the United States are typically not published until 18 months after filing or, in some cases, not at all, and publications of discoveries in industry-related literature lag behind actual discoveries. We cannot be certain that we were the first to use the inventions claimed in our issued patents or pending patent applications or otherwise used in our software, that we were the first to file for protection in our patent applications, or that third parties do not have blocking patents that could be used to prevent us from marketing or practicing our patented software or technology. Effective patent, trademark, copyright and trade secret protection may not be available to us in every country in which our software is available. The laws of some foreign countries may not be as protective of intellectual property rights as those in the United States (in particular, some foreign jurisdictions do not permit patent protection for software), and mechanisms for enforcement of intellectual property rights may be inadequate. Additional uncertainty may result from changes to intellectual property legislation enacted in the United States (including the recent “America Invents Act”) and other national governments and from interpretations of the intellectual property laws of the United States and other countries by applicable courts and agencies. Accordingly, despite our efforts, we may be unable to prevent third parties from infringing upon or misappropriating our intellectual property.

Although we enter into confidentiality and invention assignment agreements with our employees and consultants and enter into confidentiality agreements with our customers and the parties with whom we have strategic relationships and business alliances, no assurance can be given that these agreements will be effective in controlling access to and distribution of our applications and propriety information or prevent reverse engineering. Further, these agreements may not prevent our competitors from independently developing technologies that are substantially equivalent or superior to our applications, and we may be unable to prevent this competition.

We may be required to spend significant resources to monitor and protect our intellectual property rights. Litigation may be necessary in the future to enforce our intellectual property rights. Such litigation could be costly, time consuming and distracting to management and could result in the impairment or loss of portions of our intellectual property. Furthermore, our efforts to enforce our intellectual property rights may be met with defenses, counterclaims and countersuits attacking the validity and enforceability of our intellectual property rights. We may not prevail in any lawsuits that we initiate. Any litigation, whether or not resolved in our favor, could subject us to substantial costs, divert resources and the attention of management and technical personnel from our business and adversely affect our business. Our inability to protect our proprietary technology against unauthorized copying or use, as well as any costly litigation, could delay further sales or the implementation of our software and offerings, impair the functionality of our software and offerings, delay introductions of new features or enhancements, result in our substituting inferior or more costly technologies into our software and offerings, or injure our reputation.

We may initiate claims or litigation against third parties for infringement of our proprietary rights or to establish the validity of our proprietary rights. Litigation also puts our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing. Additionally, we may provoke third parties to assert counterclaims against us. We may not prevail in any lawsuits that we initiate, and the damages or other remedies awarded, if any, may not be commercially viable. 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, results of operations, financial condition and cash flows.

Future acquisitions could disrupt our business and may divert management’s attention and if unsuccessful, harm our business.

We may choose to expand by making acquisitions that could be material to our business. To date, we have completed one minor acquisition, in 2012, and our ability as an organization to successfully acquire and integrate technologies or businesses is unproven and limited. Acquisitions involve many risks, including the following:

- an acquisition may negatively affect our results of operations and financial condition because it may require us to incur charges or assume substantial debt or other liabilities, may cause adverse tax consequences or unfavorable accounting treatment, may expose us to claims and disputes by third parties, including intellectual property claims and disputes, or may not generate sufficient financial return to offset additional costs and expenses related to the acquisition;
- we may encounter difficulties or unforeseen expenditures in integrating the business, technologies, products, personnel or operations of any company that we acquire, particularly if key personnel of the acquired company decide not to work for us;
- an acquisition may disrupt our ongoing business, divert resources, increase expenses and distract management;
- an acquisition may result in a delay or reduction of customer purchases for both us and the company we acquired due to customer uncertainty about continuity and effectiveness of service from either company;

- we may encounter difficulties in, or may be unable to, successfully sell any acquired products;
- an acquisition may involve the entry into geographic or business markets in which we have little or no prior experience or where competitors have stronger market positions;
- challenges inherent in effectively managing an increased number of employees in diverse locations;
- the potential strain on our financial and managerial controls and reporting systems and procedures;
- potential known and unknown liabilities associated with an acquired company;
- our use of cash to pay for acquisitions would limit other potential uses for our cash;
- if we incur debt to fund such acquisitions, such debt may subject us to material restrictions on our ability to conduct our business as well as financial maintenance covenants;
- the risk of impairment charges related to potential write-downs of acquired assets or goodwill in future acquisitions;
- to the extent that we issue a significant amount of equity or equity-linked securities in connection with future acquisitions, existing stockholders may be diluted and earnings per share may decrease; and
- managing the varying intellectual property protection strategies and other activities of an acquired company.

We may not succeed in addressing these or other risks or any other problems encountered in connection with the integration of any acquired business. The inability to integrate successfully the business, technologies, products, personnel or operations of any acquired business, or any significant delay in achieving integration, could harm our business and operating results.

Provisions of our debt instruments may restrict our ability to pursue our business strategies.

Our credit facility requires us, and any debt instruments we may enter into in the future may require us, to comply with various covenants that limit our ability to, among other things:

- dispose of assets;
- complete mergers or acquisitions;
- incur indebtedness;
- encumber assets;
- pay dividends or make other distributions to holders of our capital stock;
- make specified investments;
- change certain key management personnel; and
- engage in transactions with our affiliates.

These restrictions could inhibit our ability to pursue our business strategies. In addition, we are subject to a financial covenant based on subscription and professional services performance. If we default under our credit facility, and such event of default was not cured or waived, the lenders could terminate commitments to lend and cause all amounts then outstanding with respect to the debt to be due and payable immediately, which in turn could result in cross defaults under any other debt instruments then outstanding. Our assets and cash flow may not be sufficient to fully repay borrowings under all of our outstanding debt instruments if some or all of these instruments are accelerated upon a default.

We may incur additional indebtedness in the future. The debt instruments governing such indebtedness could contain provisions that are as, or more, restrictive than our existing debt instruments. If we are unable to repay, refinance or restructure our indebtedness when payment is due, the lenders could proceed against the collateral granted to them to secure such indebtedness or force us into bankruptcy or liquidation.

Our ability to raise capital in the future may be limited, and if we fail to raise capital when needed, we could be prevented from growing.

Our business and operations may consume resources faster than we anticipate. While we believe our cash and cash equivalents, cash flows from operations and available borrowings under our credit facilities will be sufficient to support our planned operations for

at least the next 12 months, in the future, we may need to raise additional funds to invest in future growth opportunities. Additional financing may not be available on favorable terms, if at all. If adequate funds are not available on acceptable terms, we may be unable to invest in future growth opportunities, which could harm our business and operating results. Pursuant to our credit facility, our debt holders have rights senior to common stockholders to make claims on our assets. In addition, our credit facility imposes and future debt instruments may impose, restrictions on our ability to dispose property, make changes in our business, engage in mergers or acquisitions, incur additional indebtedness, and make investments and distributions. Furthermore, if we issue additional equity securities, stockholders will experience dilution, and the new equity securities could have rights senior to those of our common stock. Because our decision to issue securities in any future offering will depend on market conditions and other factors beyond our control, we cannot predict or estimate the amount, timing or nature of our future offerings. As a result, stockholders bear the risk that future securities offerings reduce the market price of our Class A common stock and dilute their interest.

We may be subject to additional obligations to collect and remit sales tax and other taxes, and we may be subject to tax liability for past sales, which could harm our business.

We do not collect sales and use, value added and similar taxes in all jurisdictions in which we have sales, based on our belief that such taxes are not applicable in certain jurisdictions. State, local and foreign jurisdictions have differing rules and regulations governing sales, use, value added and other taxes, and these rules and regulations are subject to varying interpretations that may change over time. In particular, the applicability of such taxes to our software in various jurisdictions is unclear. Further, these jurisdictions' rules regarding tax nexus are complex and vary significantly. As a result, we could face the possibility of tax assessments and audits. Our liability for these taxes and associated penalties and interest could exceed our original estimates, and we could be required to collect additional taxes in the future. A successful assertion that we should be collecting additional sales, use, value added or other taxes in those jurisdictions where we have not historically done so and do not accrue for such taxes could result in substantial tax liabilities and related penalties for past sales, discourage customers from purchasing our application or otherwise harm our business and operating results.

Changes in tax laws or regulations that are applied adversely to us or our customers could increase the costs of our applications and adversely impact our business.

New income, sales, use or other tax laws, statutes, rules, regulations or ordinances could be enacted at any time, which could affect the tax treatment of our (and our subsidiaries') domestic and foreign earnings. Any new taxes could adversely affect our domestic and international business operations, and our business and financial performance. Further, existing tax laws, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us. Specifically, taxation of cloud-based applications is constantly evolving as many state and local jurisdictions consider the taxability of software services provided remotely. These events could require us or our customers to pay additional tax amounts on a prospective or retroactive basis, as well as require us or our customers to pay fines or penalties and interest for past amounts deemed to be due. If we raise our prices to offset the costs of these changes, existing and potential future customers may elect not to continue or purchase our platform or applications in the future. Additionally, new, changed, modified or newly interpreted or applied tax laws could increase our customers' and our compliance, operating and other costs, as well as the costs of our software. Any or all of these events could harm our business and operating results.

We are a multinational organization faced with increasingly complex tax issues in many jurisdictions, and we could be obligated to pay additional taxes in various jurisdictions.

As a multinational organization, we may be subject to taxation in several jurisdictions around the world with increasingly complex tax laws, the application of which can be uncertain, and significant judgment and estimates are required in determining our provision for taxes. Our tax expense may be impacted if our intercompany transactions, which are required to be computed on an arm's-length basis, are challenged and successfully disputed by tax authorities. Our policies governing transfer pricing may be determined to be inadequate and could result in additional tax assessments. The amount of taxes we pay in these jurisdictions could increase substantially as a result of changes in the applicable tax principles, including increased tax rates, new tax laws or revised interpretations of existing tax laws and precedents, which could harm our liquidity and operating results. In addition, the authorities in these jurisdictions could review our tax returns and impose additional tax, interest and penalties, and the authorities could claim that various withholding requirements or other taxes apply to us or our subsidiaries (including withholding and indirect taxes on software licenses and related intercompany transactions) or assert that benefits of tax treaties are not available to us or our subsidiaries, any of which could adversely affect our operating results.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

As of December 31, 2015, we had federal net operating loss carryforwards of approximately \$145.8 million, which will expire between 2027 and 2034. Under Sections 382 and 383 of the Internal Revenue Code of 1986, as amended, if a corporation undergoes

an “ownership change” (generally defined as a greater than 50-percentage-point cumulative change (by value) in the equity ownership of certain stockholders over a rolling three-year period), the corporation’s ability to use its pre-change net operating loss carryforwards and other pre-change tax attributes (such as research tax credits) to offset its post-change taxable income or taxes may be limited. We may experience such an ownership change in the future as a result of subsequent shifts in our stock ownership, some of which are outside our control. Furthermore, our ability to utilize the net operating losses or other tax attributes of companies that we may acquire in the future may be subject to limitations. There is also a risk that due to regulatory changes, such as suspensions on the use of net operating losses, or other unforeseen reasons, our existing net operating losses could expire or otherwise be unavailable to offset future income tax liabilities. For these reasons, our ability to use our pre-change net operating loss carryforwards and other pre-change tax attributes to offset post-change taxable income or taxes may be subject to limitation, which could potentially result in increased future tax liability to us.

Future changes in the regulations and laws of the United States, or those of the international markets in which we do business, could harm our business.

We are subject to general business regulations and laws, as well as regulations and laws specifically governing the internet and software, in the United States as well as the international markets in which we do business. These regulations and laws may cover employment, taxation, privacy, data protection, pricing, content, copyrights, mobile communications, electronic contracts and other communications, consumer protection, unencumbered internet access to our services, the design and operation of websites, and the characteristics and quality of software and services. It is possible changes to these regulations and laws, as well as compliance challenges related to the complexity of multiple, conflicting and changing sets of applicable regulations and laws, may impact our sales, operations, and future growth.

Significant U.K. or European developments stemming from the U.K.’s referendum on membership in the European Union could have a material adverse effect on us.

On June 23, 2016, the United Kingdom held a referendum and voted in favor of leaving the European Union. This has created political and economic uncertainty, particularly in the United Kingdom and the European Union, and this uncertainty may last for years. Our business in the United Kingdom, the European Union, and worldwide could be affected during this period of uncertainty, and perhaps longer, by the impact of the United Kingdom’s referendum. There are many ways in which our business could be affected, only some of which we can identify as of the date of this report.

The referendum, and the likely withdrawal of the United Kingdom from the European Union it triggers, has caused and, along with events that could occur in the future as a consequence of the United Kingdom’s withdrawal, including the possible breakup of the United Kingdom, may continue to cause significant volatility in global financial markets, including in global currency and debt markets. This volatility could cause a slowdown in economic activity in the United Kingdom, Europe or globally, which could adversely affect our operating results and growth prospects. In addition, our business could be negatively affected by new trade agreements or data transfer agreements between the United Kingdom and other countries, including the United States, and by the possible imposition of trade or other regulatory barriers in the United Kingdom. Furthermore, we currently operate in Europe through an Apptio subsidiary based in the United Kingdom, which currently provides us with certain operational, tax and other benefits, as well as through other subsidiaries in Europe. The United Kingdom’s withdrawal from the European Union could adversely affect our ability to realize those benefits and we may incur costs and suffer disruptions in our European operations as a result. These possible negative impacts, and others resulting from the United Kingdom’s actual or threatened withdrawal from the European Union, may adversely affect our operating results and growth prospects.

Increased sales to U.S. federal, state, local and foreign governments expose us to risks inherent in government sales and procurement.

Contracts with U.S. federal, state, local and foreign government entities are subject to various procurement regulations and other requirements relating to their formation, administration and performance. We may be subject to audits and investigations relating to our government contracts and any violations could result in various civil and criminal penalties and administrative sanctions, including termination of contract, refunding or suspending of payments, forfeiture of profits, payment of fines and suspension or debarment from future government business. Further, in order to obtain, and in some cases expedite, sales to certain government customers, we may enter into subcontractor agreements with existing approved government contractors subjecting us to further risks associated with those subcontractor agreements as well as the potential default or breach of the underlying agreements between the approved government contractors and government entity to which we are not a party.

Risks Related to the Ownership of our Common Stock

The dual class structure of our common stock has the effect of concentrating voting control with those stockholders who held our capital stock prior to the closing of our IPO, including our executive officers, employees and directors and their affiliates, which will limit your ability to influence the outcome of important transactions, including a change in control.

Our Class B common stock has 10 votes per share, and our Class A common stock, which is the stock we offered in our IPO, has one vote per share. Our stockholders who held shares prior to our IPO, all of whom hold shares of Class B common stock, collectively hold approximately 98% of the voting power of our outstanding capital stock, as of September 30, 2016. Our executive officers and directors and their related parties, which include funds affiliated with Madrona Venture Group and Shasta Ventures, and the other holder of 5% or more of our common stock, collectively beneficially own shares representing approximately 66% of the voting power of our outstanding capital stock, as of September 30, 2016. Because of the ten-to-one voting ratio between Class B common stock and Class A common stock, the holders of Class B common stock collectively continue to control a majority of the combined voting power of our capital stock and therefore are able to control all matters submitted to our stockholders for approval until the earlier of (1) the seventh anniversary of the closing of our IPO and (2) the date on which the Class B common stock ceases to represent at least 20% of our outstanding common stock, on which date all of the shares of Class B common stock will automatically convert to Class A common stock. These holders of Class B common stock may also have interests that differ from yours and may vote in a way with which you disagree and which may be adverse to your interests. This concentrated control may have the effect of delaying, preventing or deterring a change in control of our company, could deprive our stockholders of an opportunity to receive a premium for their capital stock as part of a sale of our company and might ultimately affect the market price of our Class A common stock.

Future transfers by holders of Class B common stock will generally result in those shares converting into shares of Class A common stock, subject to limited exceptions, such as certain transfers effected for estate planning or charitable purposes. The conversion of shares of Class B common stock into shares of Class A common stock will have the effect, over time, of increasing the relative voting power of those holders of Class B common stock who retain their shares in the long term, which may include our executive officers and directors and their affiliates.

Our stock price may fluctuate significantly and the value of your investment may decline significantly.

The trading price of Class A common stock may be highly volatile and could be subject to wide fluctuations in response to various factors, some of which are beyond our control. In addition to the other risks discussed in this report, these factors include:

- actual or anticipated fluctuations in revenue and other operating results, including as a result of the addition or loss of any number of customers;
- announcements by us or our competitors of significant technical innovations, acquisitions, strategic partnerships, joint ventures or capital commitments;
- the financial projections we may provide to the public, any changes in these projections or our failure to meet these projections;
- failure of securities analysts to maintain coverage of us, changes in ratings and financial estimates and the publication of other news by any securities analysts who follow our company, or our failure to meet these estimates or the expectations of investors;
- changes in operating performance and stock market valuations of cloud-based software or other technology companies, or those in our industry in particular;
- the size of our public float;
- price and volume fluctuations in the trading of our Class A common stock and in the overall stock market, including as a result of trends in the economy as a whole or in the technology industry;
- new laws or regulations or new interpretations of existing laws or regulations applicable to our business or industry, including data privacy and data security;
- lawsuits threatened or filed against us for claims relating to intellectual property, employment issues or otherwise;
- changes in our board of directors or management;
- short sales, hedging and other derivative transactions involving our Class A common stock;

- sales of large blocks of our common stock including sales by our executive officers, directors and significant stockholders; and
- other events or factors, including changes in general economic, industry and market conditions and trends, as well as any natural disasters that may affect our operations.

The stock market in general, and market prices for the securities of technology companies like ours in particular, have from time to time experienced volatility that often has been unrelated to the operating performance of the underlying companies. These broad market and industry fluctuations may adversely affect the market price of our Class A common stock, regardless of our operating performance. In several recent situations when the market price of a stock has been volatile, holders of that stock have instituted securities class action litigation against the company that issued the stock. If any of our stockholders were to bring a lawsuit against us, the defense and disposition of the lawsuit could be costly and divert the time and attention of our management and harm our operating results.

An active trading market for our Class A common stock may not develop.

Prior to our IPO, there was no public market for our Class A common stock and an active trading market for our shares may never develop or be sustained following the IPO. The lack of an active market may impair investors' ability to sell their shares at the time they wish to sell them or at a price that they consider reasonable, may reduce the market value of their shares and may impair our ability to raise capital.

If securities or industry analysts issue an adverse opinion about our business, our stock price and trading volume could decline.

The trading market for our Class A common stock will be influenced by the research and reports that industry or securities analysts publish about us or our business. We do not have any control over these analysts. If few analysts commence research coverage of us, or one or more of the analysts who cover us issues an adverse opinion about our company, our stock price would likely decline. If one or more of these analysts ceases research coverage of us or fails to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

Future sales of our common stock could cause our stock price to fall.

Our stock price could decline as a result of sales of a large number of shares of our common stock after our IPO or the perception that these sales could occur. These sales, or the possibility that these sales may occur, also might make it more difficult for us to sell equity securities in the future at a time and at a price that we deem appropriate.

As of September 30, 2016, 6,900,000 shares of our Class A common stock are outstanding and 31,398,491 shares of our Class B common stock are outstanding. All shares of Class A common stock sold in our IPO are freely tradable without restriction or further registration under the Securities Act, unless held by our "affiliates," as that term is defined in Rule 144 under the Securities Act. The resale of the 31,398,491 shares of Class B common stock, or approximately 82% of our outstanding shares, is currently prohibited or otherwise restricted as a result of securities law provisions, market standoff agreements entered into by our stockholders with us or lock-up agreements entered into by our stockholders with the underwriters; however, subject to applicable securities law restrictions, these shares will be able to be sold in the public market beginning March 22, 2017. In addition, the shares subject to outstanding options and warrants, of which options and warrants to purchase 11,532,043 shares and 10,604 shares, respectively, were outstanding as of September 30, 2016, and the shares reserved for future issuance under our stock option and equity incentive plans will become available for sale immediately upon the exercise of such options and the expiration of any applicable market stand-off or lock-up agreements, subject to applicable securities law restrictions. On September 23, 2016, we registered the offer and sale of all shares of common stock that we may issue under our equity compensation plans. As a consequence, the sale of shares to be issued under our equity incentive plans can be freely sold in the public market upon issuance, subject to the lockup agreements and the restrictions of Rule 144 under the Securities Act, in the case of our affiliates.

The holders of 27,975,319 shares (including the shares underlying warrants), or approximately 73% of our common stock, have rights, subject to some conditions, to require us to file registration statements covering the sale of their shares or to include their shares in registration statements that we may file for ourselves or other stockholders. Once we register the offer and sale of shares for the holders of registration rights, they can be freely sold in the public market upon issuance, subject to the lock-up agreements and the restrictions of Rule 144 under the Securities Act, in the case of our affiliates.

In addition, in the future, we may issue additional shares of Class A common stock or other equity or debt securities convertible into Class A common stock in connection with a financing, acquisition, commercial relationship, litigation settlement, employee

arrangements or otherwise. Any such issuance could result in substantial dilution to our existing stockholders and could cause our stock price to decline.

Our management team has broad discretion to use the net proceeds from our IPO, and its investment of these proceeds may not yield a favorable return. They may invest the proceeds of this offering in ways with which investors disagree.

We expect to use the net proceeds from the IPO for working capital and other general corporate purposes. We may also use a portion of the net proceeds to expand our current business through acquisitions of or investments in other complementary businesses, technologies or other assets. However, we currently have no agreements or commitments with respect to any such acquisitions or investments at this time.

We could spend the proceeds from our IPO in ways our stockholders may not agree with or that do not yield a favorable return, if at all. If we do not invest or apply the proceeds of this offering in ways that improve our operating results, we may fail to achieve expected financial results, which could cause our stock price to decline.

Anti-takeover provisions in our charter documents and under Delaware or Washington law could make an acquisition of us difficult, limit attempts by our stockholders to replace or remove our current management and adversely affect our stock price.

Provisions of our certificate of incorporation and bylaws may delay or discourage transactions involving an actual or potential change in our control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our stock. Among other things, the certificate of incorporation and bylaws will:

- permit the board of directors to issue up to 5,000,000 shares of preferred stock, with any rights, preferences and privileges as they may designate;
- provide that the authorized number of directors may be changed only by resolution of the board of directors;
- provide that all vacancies, including newly-created directorships, may, except as otherwise required by law, be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- divide the board of directors into three classes;
- provide that a director may only be removed from the board of directors by the stockholders for cause;
- require that any action to be taken by our stockholders must be effected at a duly called annual or special meeting of stockholders and may not be taken by written consent;
- provide that stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide notice in writing in a timely manner, and meet specific requirements as to the form and content of a stockholder's notice;
- prevent cumulative voting rights (therefore allowing the holders of a plurality of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose);
- require that, to the fullest extent permitted by law, a stockholder reimburse us for all fees, costs and expenses incurred by us in connection with a proceeding initiated by such stockholder in which such stockholder does not obtain a judgment on the merits that substantially achieves the full remedy sought;
- provide that special meetings of our stockholders may be called only by the chairman of the board, our chief executive officer (or president, in the absence of a chief executive officer) or by the board of directors;
- provide that stockholders will be permitted to amend the bylaws only upon receiving at least two-thirds of the total votes entitled to be cast by holders of all outstanding shares then entitled to vote generally in the election of directors, voting together as a single class; and
- authorize two classes of common stock.

In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which generally prohibits a Delaware corporation from engaging in any of a broad range of business combinations with any "interested" stockholder for a period of three years following the date on which the stockholder became an "interested" stockholder. Likewise, because our principal executive offices are located in Washington, the anti-takeover provisions of

the Washington Business Corporation Act may apply to us under certain circumstances now or in the future. These provisions prohibit a “target corporation” from engaging in any of a broad range of business combinations with any stockholder constituting an “acquiring person” for a period of five years following the date on which the stockholder became an “acquiring person.”

Our certificate of incorporation provides that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders’ ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our certificate of incorporation provides that, unless we otherwise consent in writing, the Court of Chancery of the State of Delaware is the exclusive forum for any derivative action or proceeding brought on our behalf, any action asserting a breach of fiduciary duty, any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our certificate of incorporation or our bylaws, any action to interpret, apply, enforce, or determine the validity of our certificate of incorporation or bylaws, or any action asserting a claim against us that is governed by the internal affairs doctrine. The choice of forum provision may limit a stockholder’s ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees. Alternatively, if a court were to find the choice of forum provision contained in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could adversely affect our business and financial condition.

We are an “emerging growth company,” and any decision on our part to comply only with certain reduced reporting and disclosure requirements applicable to emerging growth companies could make our Class A common stock less attractive to investors.

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups, or JOBS, Act enacted in April 2012, and, for as long as we continue to be an “emerging growth company,” we may choose to take advantage of exemptions from various reporting requirements applicable to other public companies but not to “emerging growth companies,” including, but not limited to, not being required to have our independent registered public accounting firm audit our internal control over financial reporting under Section 404, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We could be an “emerging growth company” for up to five years following the closing of our IPO, although, if we have more than \$1.0 billion in annual revenue, if the market value of our common stock that is held by non-affiliates exceeds \$700 million as of the last business day in June, or we issue more than \$1.0 billion of non-convertible debt over a three-year period before the end of that five-year period, we would cease to be an “emerging growth company” as of the following December 31. We cannot predict if investors will find our Class A common stock less attractive if we choose to rely on these exemptions. If some investors find our Class A common stock less attractive as a result of any choices to reduce future disclosure, there may be a less active trading market for our Class A common stock and our stock price may be more volatile.

As an “emerging growth company” the JOBS Act, allows us to delay adoption of new or revised accounting pronouncements applicable to public companies until such pronouncements are made applicable to private companies. We have elected to use this extended transition period under the JOBS Act. As a result, our financial statements may not be comparable to the financial statements of issuers who are required to comply with the effective dates for new or revised accounting standards that are applicable to public companies, which may make our common stock less attractive to investors.

We will incur increased costs by being a public company.

As a public company, and particularly after we cease to be an “emerging growth company,” we will incur greater legal, accounting and other expenses that we did not incur as a private company, including costs associated with public company reporting requirements. We also anticipate that we will incur costs associated with corporate governance requirements, including requirements of the SEC and The NASDAQ Global Market. We expect these rules and regulations to increase our legal and financial compliance costs and to make some activities more time-consuming and costly. We also expect that these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. As a result, it may be more difficult for us to attract and retain qualified individuals to serve on our board of directors or as executive officers. We are currently evaluating and monitoring developments with respect to these rules, and we cannot predict or estimate the amount of additional costs we may incur or the timing of such costs.

When our independent registered public accounting firm is required to undertake an assessment of our internal control over financial reporting, the cost of our compliance with Section 404 will correspondingly increase. Moreover, if we are not able to comply with the requirements of Section 404 applicable to us in a timely manner, or if we or our independent registered public accounting

firm identifies deficiencies in our internal control over financial reporting that are deemed to be material weaknesses, the market price of our stock could decline and we could be subject to sanctions or investigations by the SEC or other regulatory authorities, which would require additional financial and management resources.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

Unregistered Shares of Equity Securities

From June 30, 2016 through September 23, 2016 (the date of the filing of our registration statement on Form S-8, File No. 333-213755), we granted stock options to purchase an aggregate of 208,200 shares of our Class B common stock to employees and consultants under our 2007 Plan and 200,000 shares of our Class B common stock to employees and consultants under our 2011 Plan, all at an exercise price of \$14.31 per share.

During this period, we also issued and sold to our employees, consultants and other service providers an aggregate of 36,476 unregistered shares of Class B common stock upon the exercise of options under our 2007 Plan, at exercise prices ranging from \$0.14 to \$11.46 per share, and no shares of Class B common, for an aggregate exercise price of \$0.2 million.

Additionally, we issued 25,658, 8,140, 3,874, and 1,915 shares of Class B common stock to accredited investors upon the cashless exercise of warrants at an exercise prices of \$1.37255, \$13.99, \$14.31 and \$14.31 per share, respectively.

These transactions were exempt from registration under the Securities Act in reliance upon Section 4(a)(2) of the Securities Act or Rule 701 promulgated under Section 3(b) of the Securities Act as transactions by an issuer not involving any public offering or pursuant to benefit plans and contracts relating to compensation as provided under Rule 701. The recipients of the securities in each of these transactions represented their intentions to acquire the securities for investment only and not with a view to or for sale in connection with any distribution thereof. All recipients had adequate access, through their relationships with us, to information about Apptio.

Use of Proceeds from Public Offering of Class A Common Stock

In September 2016, we closed our IPO, in which we sold 6,900,000 shares of Class A common stock at a price to the public of \$16.00 per share, including shares sold in connection with the exercise of the underwriters' option to purchase additional shares. The offer and sale of all of the shares in the IPO were registered under the Securities Act pursuant to a registration statement on Form S-1 (File No. 333-213334), which was declared effective by the SEC on September 22, 2016. We raised \$99.1 million in net proceeds after deducting underwriting discounts and commissions of \$7.7 million and offering expenses of \$3.6 million. Using the proceeds from the IPO, on September 28, 2016, we repaid \$10.0 million principal amount of term borrowings under the senior credit facility and \$10.0 million principal amount of term borrowings under the subordinated loan and security agreement. In addition, we paid a prepayment penalty and final payment fee in the aggregate amount of \$0.2 million in connection with the foregoing repayment under the subordinated loan and security agreement. No payments were made by us to directors, officers or persons owning 10% or more of our capital stock or to their associates, or to our affiliates, other than payments in the ordinary course of business to officers for salaries. There has been no material change in the planned use of proceeds from our IPO as described in our Prospectus. We invested the funds received in accordance with our board approved investment policy, which provides for investments in obligations of the U.S. government, money market instruments, registered money market funds and corporate bonds. The managing underwriters of our IPO were Goldman, Sachs & Co. and J.P. Morgan Securities LLC.

Item 6. Exhibits.

See the Exhibit Index on the page immediately following the signature page to this report on Form 10-Q for a list of the exhibits filed as part of this report, which Exhibit Index is incorporated herein by reference.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Aptio, Inc.

Date: November 4, 2016

By: _____
/s/ Sachin Gupta
Sachin Gupta
President and Chief Executive Officer
(Principal Executive Officer)

Date: November 4, 2016

By: _____
/s/ Kurt Shintaffer
Kurt Shintaffer
Chief Financial Officer
(Principal Financial and Accounting Officer)

Exhibit Index

Exhibit Number	Exhibit Description	Incorporated by Reference			Filed Herewith
		Form	Date	Number	
3.1	Amended and Restated Certificate of Incorporation				X
3.2	Amended and Restated Bylaws	S-1/A	09/12/2016	3.2	
31.1	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
31.2	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
32.1*	Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
32.2*	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
101.INS	XBRL Instance Document				X
101.SCH	XBRL Taxonomy Extension Schema Linkbase Document				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document				X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document				X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				X

* The certifications attached as Exhibits 32.1 and 32.2 that accompany this Quarterly Report on Form 10-Q are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of Apptio, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Form 10-Q, irrespective of any general incorporation language contained in such filing.

APPTIO, INC.

AMENDED AND RESTATED CERTIFICATE OF INCORPORATION

Apptio, Inc. (the “**Corporation**”), a corporation organized and existing under the laws of the State of Delaware, hereby certifies as follows:

A. The Corporation was originally incorporated under the name of Apptio, Inc., and the original Certificate of Incorporation of the Corporation was filed with the Secretary of State of the State of Delaware on October 2, 2007.

B. This Amended and Restated Certificate of Incorporation was duly adopted in accordance with Sections 242 and 245 of the General Corporation Law of the State of Delaware (the “**DGCL**”), and has been duly approved by the written consent of the stockholders of the Corporation in accordance with Section 228 of the DGCL.

C. This Amended and Restated Certificate of Incorporation shall be effective as of 9:00 a.m. Eastern Time on September 28, 2016.

D. The Certificate of Incorporation of the Corporation is hereby amended and restated in its entirety to read as follows:

ARTICLE I

The name of the Corporation is Apptio, Inc.

ARTICLE II

The address of the Corporation’s registered office in the State of Delaware is 2711 Centerville Road, Suite 400, City of Wilmington, County of New Castle, 19808. The name of its registered agent at such address is Corporation Service Company.

ARTICLE III

The purpose of the Corporation is to engage in any lawful act or activity for which corporations may be organized under the DGCL.

ARTICLE IV

A. Classes of Stock. The total number of shares of capital stock that the Corporation shall have authority to issue is 500,000,000, consisting of the following: 451,000,000 shares of Class A Common Stock, par value \$0.0001 per share (“**Class A Common Stock**”), 44,000,000 shares of Class B Common Stock, par value \$0.0001 per share (“**Class B Common Stock**”), and 5,000,000 shares of undesignated Preferred Stock, par value \$0.0001 per share (“**Preferred Stock**”).

Immediately upon the filing and effectiveness of this Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware (the “**Effective Time**”),

each share of the Corporation's capital stock issued and outstanding or held as treasury stock immediately prior to the Effective Time shall, automatically and without further action by any stockholder, be reclassified as, and shall become, one share of Class B Common Stock.

B. Rights of Preferred Stock. The Board of Directors of the Corporation (the "**Board of Directors**") is authorized, subject to any limitations prescribed by law, but to the fullest extent permitted by law, to provide by resolution for the issuance of shares of Preferred Stock in series, and by filing a certificate pursuant to the applicable law of the State of Delaware (such certificate being hereinafter referred to as a "**Preferred Stock Designation**"), to establish from time to time the number of shares to be included in each such series, and to fix the designation, powers, (which may include, without limitation, full, limited or no voting powers), preferences, and relative, participating, optional or other rights of the shares of each such series and any qualifications, limitations or restrictions thereof.

C. Vote to Increase or Decrease Authorized Shares of Preferred Stock. The number of authorized shares of Preferred Stock may be increased or decreased (but not below the number of shares thereof then outstanding) by the affirmative vote of the holders of a majority of the voting power of all of the outstanding shares of capital stock of the Corporation entitled to vote thereon, without a separate class vote of the holders of Preferred Stock, or any separate series votes of any series thereof, unless a vote of any such holders is required pursuant to the terms of any Preferred Stock Designation.

D. Rights of Class A Common Stock and Class B Common Stock. The relative powers, rights, qualifications, limitations and restrictions granted to or imposed on the shares of Class A Common Stock and Class B Common Stock are as follows:

1. Voting Rights.

(a) General Right to Vote Together; Exception. Except as otherwise expressly provided herein or required by applicable law, the holders of Class A Common Stock and Class B Common Stock shall vote together as one class on all matters submitted to a vote of the stockholders; *provided, however*, subject to the terms of any Preferred Stock Designation, the number of authorized shares of Class A Common Stock or Class B Common Stock may be increased or decreased (but not below the number of shares thereof then outstanding) by the affirmative vote of the holders of a majority of the voting power of the capital stock of the Corporation entitled to vote, irrespective of the provisions of Section 242(b)(2) of DGCL.

(b) Votes Per Share. Except as otherwise expressly provided herein or required by applicable law, on any matter that is submitted to a vote of the stockholders, each holder of Class A Common Stock shall be entitled to one (1) vote for each such share, and each holder of Class B Common Stock shall be entitled to ten (10) votes for each such share.

2. Identical Rights. Except as otherwise expressly provided herein or required by applicable law, shares of Class A Common Stock and Class B Common Stock shall have the same rights and privileges and rank equally, share ratably and be identical in all respects as to all matters, including, without limitation:

(a) Dividends and Distributions. Subject to the preferences applicable to any series of Preferred Stock, if any, outstanding at any time, shares of Class A Common Stock and Class B Common Stock shall be treated equally, identically and ratably, on a per share basis, with respect to any Distribution paid or distributed by the Corporation, unless different treatment of the shares of each such class is approved by the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock and by the affirmative vote of the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a class; *provided, however*, that if a Distribution is paid in the form of Class A Common Stock or Class B Common Stock (or Rights to acquire such stock), then holders of Class A Common Stock shall receive Class A Common Stock (or Rights to acquire such stock, as the case may be) and holders of Class B Common Stock shall receive Class B Common Stock (or Rights to acquire such stock, as the case may be).

(b) Subdivision or Combination. If the Corporation in any manner subdivides or combines the outstanding shares of Class A Common Stock or Class B Common Stock, the outstanding shares of the other such class will be subdivided or combined in the same proportion and manner, unless different treatment of the shares of each such class is approved by the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock and by the affirmative vote of the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a class.

(c) Equal Treatment in a Change of Control or any Merger Transaction. In connection with any Change of Control Transaction, shares of Class A Common Stock and Class B Common Stock shall be treated equally, identically and ratably, on a per share basis, with respect to any consideration into which such shares are converted or any consideration paid or otherwise distributed to stockholders of the Corporation, unless different treatment of the shares of each such class is approved by the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock and by the affirmative vote of the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a class. Any merger or consolidation of the Corporation with or into any other entity that does not constitute a Change of Control Transaction shall require approval by the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock and by the affirmative vote of the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a class, unless (i) the shares of Class A Common Stock and Class B Common Stock remain outstanding and no other consideration is received in respect thereof or (ii) such shares are converted on a pro rata basis into shares of the surviving or parent entity in such transaction having identical rights to the shares of Class A Common Stock and Class B Common Stock, respectively.

3. Conversion of Class B Common Stock.

(a) Voluntary Conversion. Each one (1) share of Class B Common Stock shall be convertible into one (1) share of Class A Common Stock at the option of the holder thereof at any time upon written notice to the transfer agent of the Corporation.

(b) Automatic Conversion. Shares of Class B Common Stock shall automatically, without any further action, convert into an equal number of shares of Class A Common Stock upon the earliest of:

(i) a Transfer of such share; *provided* that no such automatic conversion shall occur in the case of a Transfer (1) from a Key Holder or a Key Holder's Permitted Transferee to another Key Holder or such Key Holder's Permitted Transferee, or (2) by a Class B Stockholder, for tax or estate planning purposes, to any of the persons or entities listed in clauses (A) through (F) below (each, a "**Permitted Transferee**") and from any such Permitted Transferee back to such Class B Stockholder and/or any other Permitted Transferee established by or for such Class B Stockholder:

(A) a trust for the benefit of such Class B Stockholder or persons other than the Class B Stockholder so long as the Class B Stockholder has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such trust; *provided* such Transfer does not involve any payment of cash, securities, property or other consideration (other than an interest in such trust) to the Class B Stockholder and, *provided, further*, that if such Class B Stockholder no longer has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such trust, each share of Class B Common Stock then held by such trust shall automatically convert into one (1) fully paid and nonassessable share of Class A Common Stock;

(B) a trust under the terms of which such Class B Stockholder has retained a "qualified interest" within the meaning of §2702(b) of the Internal Revenue Code and/or a reversionary interest so long as the Class B Stockholder has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such trust; *provided, however*, that if the Class B Stockholder no longer has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such trust, each share of Class B Common Stock then held by such trust shall automatically convert into one (1) fully paid and nonassessable share of Class A Common Stock;

(C) with respect to Sachin Gupta, (1) the Gupta Family Irrevocable Trust; (2) the PG GRAT of 2016; and (3) any successor trust established under the terms of the PG GRAT of 2016, *provided* that Sachin Gupta has exclusive Voting Control with respect to the shares of Class B Common Stock held by such successor trust;

(D) with respect to Kurt Shintaffer, (1) the KCS 2012 GRAT and (2) any successor trust established under the terms of the KCS 2012 GRAT, *provided* that Kurt Shintaffer has exclusive Voting Control with respect to the shares of Class B Common Stock held by such successor trust;

(E) an Individual Retirement Account, as defined in Section 408(a) of the Internal Revenue Code, or a pension, profit sharing, stock bonus or other type of plan or trust of which such Class B Stockholder is a participant or beneficiary and which satisfies the requirements for qualification under Section 401 of the Internal Revenue Code; *provided* that in each case such Class B Stockholder has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held in such account, plan

or trust, and *provided, further*, that if the Class B Stockholder no longer has sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such account, plan or trust, each share of Class B Common Stock then held by such trust shall automatically convert into one (1) fully paid and nonassessable share of Class A Common Stock;

(F) a corporation, partnership or limited liability company in which such Class B Stockholder directly, or indirectly through one or more Permitted Transferees, owns shares, partnership interests or membership interests, as applicable, with sufficient Voting Control in the corporation, partnership or limited liability company, as applicable, or otherwise has legally enforceable rights, such that the Class B Stockholder retains sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such corporation, partnership or limited liability company; *provided* that if the Class B Stockholder no longer owns sufficient shares, partnership interests or membership interests, as applicable, or no longer has sufficient legally enforceable rights to ensure the Class B Stockholder retains sole dispositive power and exclusive Voting Control with respect to the shares of Class B Common Stock held by such corporation, partnership or limited liability company, as applicable, each share of Class B Common Stock then held by such corporation, partnership or limited liability company, as applicable, shall automatically convert into one (1) fully paid and nonassessable share of Class A Common Stock; and

(ii) the date specified by a written notice and certification request of the Corporation to the holder of such share of Class B Common Stock requesting a certification, in a form satisfactory to the Corporation, verifying such holder's ownership of Class B Common Stock and confirming that a conversion to Class A Common Stock has not occurred, which date shall not be less than sixty (60) calendar days after the date of such notice and certification request; *provided* that no such automatic conversion pursuant to this subsection (ii) shall occur in the case of a Class B Stockholder or its Permitted Transferees that furnishes a certification satisfactory to the Corporation prior to the specified date.

(c) Conversion Upon Death or Incapacity of a Class B Stockholder.

(i) Each share of Class B Common Stock held of record by a Class B Stockholder, other than a Key Holder, who is a natural person, or by such Class B Stockholder's Permitted Transferees, shall automatically, without any further action, convert into one (1) fully paid and nonassessable share of Class A Common Stock upon the death or Incapacity of such Class B Stockholder.

(ii) Each share of Class B Common Stock held of record by a Key Holder, or by a Key Holders' Permitted Transferees, upon the death or Incapacity of such Key Holder, shall automatically convert into one (1) fully paid and nonassessable share of Class A Common Stock upon that date which is the earlier of: (a) nine (9) months after the date of death or Incapacity of the Key Holder and (b) the date upon which the Designated Proxy Holder ceases to hold exclusive Voting Control over such shares of Class B Common Stock.

(d) Automatic Conversion of all Outstanding Class B Common Stock. Each one (1) share of Class B Common Stock shall automatically, without any further action, convert into one (1) share of Class A Common Stock upon the date specified by affirmative vote

of the holders of at least sixty-six and two-thirds percent (66-2/3%) of the outstanding shares of Class B Common Stock, voting as a single class.

(e) Final Conversion of Class B Common Stock. At the Final Conversion Time, each one (1) issued share of Class B Common Stock shall automatically, without any further action, convert into one (1) share of Class A Common Stock. Following such conversion, the reissuance of all shares of Class B Common Stock shall be prohibited, and such shares shall be retired and cancelled in accordance with Section 243 of the DGCL and the filing by the Secretary of State of the State of Delaware required thereby, and upon such retirement and cancellation, all references to Class B Common Stock in this Amended and Restated Certificate of Incorporation shall be eliminated.

(f) Procedures. The Corporation may, from time to time, establish such policies and procedures relating to the conversion of Class B Common Stock to Class A Common Stock and the general administration of this dual class stock structure, including the issuance of stock certificates with respect thereto, as it may deem reasonably necessary or advisable, and may from time to time request that holders of shares of Class B Common Stock furnish certifications, affidavits or other proof to the Corporation as it deems necessary to verify the ownership of Class B Common Stock and to confirm that a conversion to Class A Common Stock has not occurred. A determination by the Secretary of the Corporation or the Board of Directors or a duly authorized committee thereof as to whether a Transfer results in a conversion to Class A Common Stock shall be conclusive and binding.

(g) Immediate Effect. In the event of a conversion of shares of Class B Common Stock to shares of Class A Common Stock pursuant to this Section D.3 or at the Final Conversion Time, such conversion(s) shall be deemed to have been made at the time that the Transfer of shares occurred or immediately at the Final Conversion Time, as applicable. Upon any conversion of Class B Common Stock to Class A Common Stock, all rights of the holder of shares of Class B Common Stock shall cease and the person or persons in whose names or names the certificate or certificates representing the shares of Class A Common Stock are to be issued shall be treated for all purposes as having become the record holder or holders of such shares of Class A Common Stock. Shares of Class B Common Stock that are converted into shares of Class A Common Stock as provided in this Section D.3 shall be retired and may not be reissued.

(h) Reservation of Stock. The Corporation shall at all times reserve and keep available out of its authorized but unissued shares of Class A Common Stock, solely for the purpose of effecting the conversion of the shares of Class B Common Stock, such number of its shares of Class A Common Stock as shall from time to time be sufficient to effect the conversion of all outstanding shares of Class B Common Stock into shares of Class A Common Stock.

E. No Further Issuances. Except for the issuance of Class B Common Stock issuable upon exercise of Rights outstanding at the Effective Time or a dividend payable in accordance with Article IV, Section D.2(a), the Corporation shall not at any time after the Effective Time issue any additional shares of Class B Common Stock, unless such issuance is approved by the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock

and the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a group. After the Final Conversion Time, the Corporation shall not issue any additional shares of Class B Common Stock.

ARTICLE V

The following terms, where capitalized in this Amended and Restated Certificate of Incorporation, shall have the meanings ascribed to them in this Article V:

“Change of Control Share Issuance” means the issuance by the Corporation, in a transaction or series of related transactions, of voting securities representing more than two percent (2%) of the total voting power (assuming Class A Common Stock and Class B Common Stock each have one (1) vote per share) of the Corporation before such issuance to any person or persons acting as a group as contemplated in Rule 13d-5(b) under the Exchange Act (or any successor provision) that immediately prior to such transaction or series of related transactions held fifty percent (50%) or less of the total voting power of the Corporation (assuming Class A Common Stock and Class B Common Stock each have one (1) vote per share), such that, immediately following such transaction or series of related transactions, such person or group of persons would hold more than fifty percent (50%) of the total voting power of the Corporation (assuming Class A Common Stock and Class B Common Stock each have one (1) vote per share).

“Change of Control Transaction” means (i) the sale, lease, exchange, or other disposition (other than liens and encumbrances created in the ordinary course of business, including liens or encumbrances to secure indebtedness for borrowed money that are approved by the Corporation’s Board of Directors, so long as no foreclosure occurs in respect of any such lien or encumbrance) of all or substantially all of the Corporation’s property and assets (which shall for such purpose include the property and assets of any direct or indirect subsidiary of the Corporation), *provided that* any sale, lease, exchange or other disposition of property or assets exclusively between or among the Corporation and any direct or indirect subsidiary or subsidiaries of the Corporation shall not be deemed a **“Change of Control Transaction”**; (ii) the merger, consolidation, business combination, or other similar transaction of the Corporation with any other entity, other than a merger, consolidation, business combination, or other similar transaction that would result in the voting securities of the Corporation outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or its parent) more than fifty percent (50%) of the total voting power represented by the voting securities of the Corporation *and* more than fifty percent (50%) of the total number of outstanding shares of the Corporation’s capital stock, in each case as outstanding immediately after such merger, consolidation, business combination, or other similar transaction, and the stockholders of the Corporation immediately prior to the merger, consolidation, business combination, or other similar transaction own voting securities of the Corporation, the surviving entity or its parent immediately following the merger, consolidation, business combination, or other similar transaction in substantially the same proportions (vis a vis each other) as such stockholders owned the voting securities of the Corporation immediately prior to the transaction; (iii) a recapitalization, liquidation, dissolution, or other similar transaction involving the Corporation, other than a recapitalization, liquidation, dissolution, or other similar transaction that would result in the voting securities of the Corporation outstanding

immediately prior thereto continuing to represent (either by remaining outstanding or being converted into voting securities of the surviving entity or its parent) more than fifty percent (50%) of the total voting power represented by the voting securities of the Corporation *and* more than fifty percent of the total number of outstanding shares of the Corporation's capital stock, in each case as outstanding immediately after such recapitalization, liquidation, dissolution or other similar transaction, and the stockholders of the Corporation immediately prior to the recapitalization, liquidation, dissolution or other similar transaction own voting securities of the Corporation, the surviving entity or its parent immediately following the recapitalization, liquidation, dissolution or other similar transaction in substantially the same proportions (vis a vis each other) as such stockholders owned the voting securities of the Corporation immediately prior to the transaction; and (iv) any Change of Control Share Issuance.

"Class B Stockholder" means (i) the registered holder of a share of Class B Common Stock at the Effective Time and (ii) the initial registered holder of any shares of Class B Common Stock that are originally issued by the Corporation after the Effective Time.

"Controlled Company Exemption" means, if and to the extent otherwise applicable to the Corporation, the exemptions from the corporate governance rules and requirements of the Securities Exchange available to any company that constitutes a "controlled company" within the meaning of the corporate governance rules and requirements of the Securities Exchange.

"Designated Proxy Holder" means, with respect to a Key Holder or any trust receiving or holding a Key Holder's shares, any natural person designated or approved by such Key Holder and not less than sixty-six and two-thirds percent (66-2/3%) of the directors then constituting the entire Board of Directors, to act as such Key Holder's proxy and attorney-in-fact or, if there is no such designee, the members of the entire Board of Directors acting by majority vote.

"Distribution" means (i) any dividend or distribution of cash, property or shares of the Corporation's capital stock; and (ii) any distribution following or in connection with any liquidation, dissolution or winding up of the Corporation, either voluntary or involuntary.

"Exchange Act" means the U.S. Securities Exchange Act of 1934, as amended.

"Final Conversion Time" means 5:00 p.m. in New York City, New York on the first Trading Day falling on or after (i) the date on which the outstanding shares of Class B Common Stock represent less than twenty-five percent (25%) of the aggregate number of shares of the then outstanding Class A Common Stock and Class B Common Stock or (ii) the seventh anniversary of the Effective Time, whichever comes first.

"Incapacity" shall mean that such holder is incapable of managing his or her financial affairs under the criteria set forth in the applicable probate code that can be expected to result in death or which has lasted or can be expected to last for a continuous period of not less than 12 months as determined by a licensed practitioner. In the event of a dispute regarding whether a Class B Stockholder has suffered an Incapacity, no Incapacity of such holder will be deemed to have occurred unless and until an affirmative ruling regarding such Incapacity has been made by a court of competent jurisdiction.

"Key Holder" means any of Sachin Gupta, Kurt Shintaffer and Paul McLachlan.

“**Rights**” means any option, warrant, conversion right or contractual right of any kind to acquire shares of the Corporation’s authorized but unissued capital stock.

“**Securities Act**” means the U.S. Securities Act of 1933, as amended.

“**Securities Exchange**” means, at any time, the registered national securities exchange on which the Corporation’s equity securities are then principally listed or traded, which shall be the New York Stock Exchange or NASDAQ Global Select Market (or similar national quotation system of the NASDAQ Stock Market) (“**NASDAQ**”) or any successor exchange of either the New York Stock Exchange or NASDAQ.

“**Trading Day**” means any day on which the Securities Exchange is open for trading.

“**Transfer**” of a share of Class B Common Stock shall mean any sale, assignment, transfer, conveyance, hypothecation or other transfer or disposition of such share or any legal or beneficial interest in such share, whether or not for value and whether voluntary or involuntary or by operation of law. A “**Transfer**” shall also include, without limitation and for the avoidance of doubt, (i) a Transfer of a share of Class B Common Stock to a broker or other nominee (regardless of whether or not there is a corresponding change in beneficial ownership) or (ii) the Transfer of, or entering into a binding agreement with respect to, Voting Control over a share of Class B Common Stock by proxy or otherwise; *provided, however*, that the following shall not be considered a “**Transfer**”: (a) the grant of a proxy by a Key Holder to a Designated Proxy Holder; (b) entering into a support or similar voting agreement (with or without granting a proxy) in connection with a Change of Control Transaction that has been approved by the Board of Directors of the Corporation; (c) the grant of a proxy to officers or directors of the Corporation at the request of the Board of Directors of the Corporation in connection with actions to be taken at an annual or special meeting of stockholders or the grant of a revocable proxy given to any other person in response to a public proxy or consent solicitation made pursuant to, and in accordance with, the applicable provisions of the General Rules and Regulations promulgated under the Exchange Act; (d) the pledge of shares of Class B Common Stock by a Class B Stockholder that creates a mere security interest in such shares pursuant to a *bona fide* loan or indebtedness transaction so long as the Class B Stockholder continues to exercise Voting Control over such pledged shares; *provided, however*, that a foreclosure on such shares of Class B Common Stock or other similar action by the pledgee shall constitute a “**Transfer**”; or (e) the fact that, as of the Effective Time or at any time after the Effective Time, the spouse of any Class B Stockholder possesses or obtains an interest in such holder’s shares of Class B Common Stock arising solely by reason of the application of the community property laws of any jurisdiction, so long as no other event or circumstance shall exist or have occurred that constitutes a “**Transfer**” of such shares of Class B Common Stock.

“**Voting Control**” with respect to a share of Class B Common Stock means the exclusive power (whether directly or indirectly) to vote or direct the voting of such share of Class B Common Stock by proxy, voting agreement, or otherwise.

ARTICLE VI

A. General Powers. The business and affairs of the Corporation shall be managed by or under the direction of the Board of Directors.

B. Number of Directors; Election. Subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, the number of directors that constitutes the entire Board of Directors of the Corporation shall be fixed solely by resolution of the Board of Directors. Subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, each director of the Corporation shall hold office until the expiration of the term for which he or she is elected and until his or her successor has been duly elected and qualified or until his or her earlier resignation, death or removal.

C. Classified Board Structure. From and after the Effective Time, and subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, the directors of the Corporation shall be divided into three (3) classes as nearly equal in size as is practicable, hereby designated Class I, Class II and Class III. The Board of Directors may assign members of the Board of Directors already in office to such classes at the time such classification becomes effective. The term of office of the initial Class I directors shall expire at the first regularly-scheduled annual meeting of stockholders following the Effective Time, the term of office of the initial Class II directors shall expire at the second annual meeting of stockholders following the Effective Time and the term of office of the initial Class III directors shall expire at the third annual meeting of stockholders following the Effective Time. At each annual meeting of stockholders, commencing with the first regularly-scheduled annual meeting of stockholders following the Effective Time, each of the successors elected to replace the directors of a Class whose term shall have expired at such annual meeting shall be elected to hold office until the third annual meeting next succeeding his or her election and until his or her respective successor shall have been duly elected and qualified.

Notwithstanding the foregoing provisions of this Article VI, and subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, each director shall serve until his or her successor is duly elected and qualified or until his or her death, resignation, or removal. Subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, if the number of directors is hereafter changed, any newly created directorships or decrease in directorships shall be so apportioned among the classes as to make all classes as nearly equal in number as is practicable, provided that no decrease in the number of directors constituting the Board of Directors shall shorten the term of any incumbent director.

D. Removal; Vacancies. Subject to the rights of holders of any series of Preferred Stock with respect to the election of directors, any director may be removed from office by the stockholders of the Corporation only for cause. Subject to the rights of holders of Preferred Stock and unless permitted in the specific case by resolution of the Board of Directors, vacancies occurring on the Board of Directors for any reason and newly created directorships resulting from an increase in the authorized number of directors may be filled only by vote of a majority of the remaining members of the Board of Directors, although less than a quorum, or by a sole remaining director, and not by stockholders. A person so elected by the Board of Directors to fill

a vacancy or newly created directorship shall hold office until the next election of the class for which such director shall have been chosen and until his or her successor shall be duly elected and qualified.

ARTICLE VII

A. Written Ballot. Elections of directors need not be by written ballot unless the Bylaws of the Corporation shall so provide.

B. Amendment of Bylaws. In furtherance and not in limitation of the powers conferred by statute, the Board of Directors is expressly authorized to adopt, amend or repeal the Bylaws of the Corporation.

C. Special Meetings. Special meetings of the stockholders may be called only by (i) the Board of Directors pursuant to a resolution adopted by a majority of the entire Board of Directors; (ii) the chairman of the Board of Directors; (iii) the chief executive officer of the Corporation; or (iv) the president of the Corporation (in the absence of a chief executive officer).

D. No Stockholder Action by Written Consent. Subject to the rights of the holders of any series of Preferred Stock, no action shall be taken by the stockholders of the Corporation except at an annual or special meeting of the stockholders called in accordance with the Bylaws, and no action shall be taken by the stockholders by written consent.

E. No Cumulative Voting. No stockholder will be permitted to cumulate votes at any election of directors.

F. No Reliance on the Controlled Company Exemption. At any time during which shares of capital stock of the Corporation are listed for trading on the Securities Exchange, the Corporation shall not rely upon the Controlled Company Exemption.

ARTICLE VIII

To the fullest extent permitted by the DGCL, as it presently exists or may hereafter be amended from time to time, a director of the Corporation shall not be personally liable to the Corporation or its stockholders for monetary damages for breach of fiduciary duty as a director. If the DGCL is amended to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the Corporation shall be eliminated or limited to the fullest extent permitted by the DGCL, as so amended.

Neither any amendment nor repeal of this Article VIII, nor the adoption of any provision of the Corporation's Certificate of Incorporation inconsistent with this Article VIII, shall eliminate or reduce the effect of this Article VIII in respect of any matter occurring, or any cause of action, suit or proceeding accruing or arising or that, but for this Article VIII, would accrue or arise, prior to such amendment, repeal or adoption of an inconsistent provision.

ARTICLE IX

Subject to any provisions in the Bylaws of the Corporation related to indemnification of directors or officers of the Corporation, the Corporation shall indemnify, to the fullest extent permitted by applicable law, any director or officer of the Corporation who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (a “**Proceeding**”) by reason of the fact that he or she is or was a director, officer, employee or agent of the Corporation or is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, including service with respect to employee benefit plans, against expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with any such Proceeding; provided, however, that the Corporation be required to indemnify a person in connection with a Proceeding (or part thereof) initiated by such person only if such Proceeding (or part thereof) was authorized by the Board of Directors.

The Corporation shall have the power to indemnify, to the extent permitted by the DGCL, as it presently exists or may hereafter be amended from time to time, any employee or agent of the Corporation who was or is a party or is threatened to be made a party to any Proceeding by reason of the fact that he or she is or was a director, officer, employee or agent of the Corporation or is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, including service with respect to employee benefit plans, against expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with any such Proceeding.

A right to indemnification or to advancement of expenses arising under a provision of this Amended and Restated Certificate of Incorporation or the Bylaws of the Corporation shall not be eliminated or impaired by an amendment to this Amended and Restated Certificate of Incorporation or the Bylaws of the Corporation after the occurrence of the act or omission that is the subject of the civil, criminal, administrative or investigative action, suit or proceeding for which indemnification or advancement of expenses is sought, unless the provision in effect at the time of such act or omission explicitly authorizes such elimination or impairment after such action or omission has occurred.

ARTICLE X

If any provision of this Amended and Restated Certificate of Incorporation becomes or is declared on any ground by a court of competent jurisdiction to be illegal, unenforceable or void, portions of such provision, or such provision in its entirety, to the extent necessary, shall be severed from this Amended and Restated Certificate of Incorporation, and the court will replace such illegal, void or unenforceable provision of this Amended and Restated Certificate of Incorporation with a valid and enforceable provision that most accurately reflects the Corporation’s intent, in order to achieve, to the maximum extent possible, the same economic, business and other purposes of the illegal, void or unenforceable provision. The balance of this Amended and Restated Certificate of Incorporation shall be enforceable in accordance with its terms.

Except as provided in ARTICLE VIII and ARTICLE IX above, the Corporation reserves the right to amend, alter, change or repeal any provision contained in this Amended and Restated Certificate of Incorporation, in the manner now or hereafter prescribed by statute, and all rights conferred upon stockholders herein are granted subject to this reservation; provided, however, that, notwithstanding any other provision of this Amended and Restated Certificate of Incorporation or any provision of law that might otherwise permit a lesser vote or no vote, but in addition to any vote of the holders of any class or series of the stock of this Corporation required by law or by this Amended and Restated Certificate of Incorporation, the affirmative vote of the holders of at least sixty-six and two-thirds percent (66-2/3%) of the voting power of the outstanding shares of stock of the Corporation entitled to vote thereon, voting together as a single class, shall be required to amend or repeal, or adopt any provision of this Amended and Restated Certificate of Incorporation inconsistent with, ARTICLE VI, ARTICLE VII, ARTICLE VIII, ARTICLE IX or this ARTICLE X; provided, further, that, notwithstanding any other provision of this Amended and Restated Certificate of Incorporation or any provision of law that might otherwise permit a lesser vote or no vote, any amendment of this proviso, Sections D.3(a) through (e) of ARTICLE IV or any of the defined terms set forth in ARTICLE V, but only to the extent such defined terms are used in Sections D.3(a) through (e) of ARTICLE IV, shall require the affirmative vote of the holders of a majority of the outstanding shares of Class A Common Stock and the holders of a majority of the outstanding shares of Class B Common Stock, each voting separately as a class.

* * *

IN WITNESS WHEREOF, this Amended and Restated Certificate of Incorporation has been signed on behalf of the Corporation by its duly authorized officer effective this day of September, 2016.

APPTIO, INC.

By: /s/ Sachin Gupta

Sachin Gupta

President and Chief Executive Officer

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Sachin Gupta, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aptio, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - c. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent function):
 - a. all significant deficiencies and material weaknesses in the design or operation of internal controls over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal controls over financial reporting.

Date: November 4, 2016

/s/ Sachin Gupta
Sachin Gupta
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Kurt Shintaffer, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aptio, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - c. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent function):
 - a. all significant deficiencies and material weaknesses in the design or operation of internal controls over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal controls over financial reporting.

Date: November 4, 2016

/s/ Kurt Shintaffer

Kurt Shintaffer

Chief Financial Officer

(Principal Financial and Accounting Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Apptio, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2016 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sachin Gupta, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 4, 2016

By: _____
/s/ Sachin Gupta
Sachin Gupta
President and Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Apptio, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2016 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Kurt Shintaffer, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 4, 2016

By: _____
/s/ Kurt Shintaffer
Kurt Shintaffer
Chief Financial Officer
(Principal Financial and Accounting Officer)

