

MICROSTRATEGY INC

FORM 10-Q (Quarterly Report)

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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 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, 2017

OR

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

For the transition period from to

Commission File Number 000-24435

MICROSTRATEGY INCORPORATED

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

51-0323571

(I.R.S. Employer
Identification Number)

1850 Towers Crescent Plaza, Tysons Corner, VA

(Address of Principal Executive Offices)

22182

(Zip Code)

(703) 848-8600

(Registrant's telephone number, including area code)

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, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

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

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

The number of shares of the registrant's class A common stock and class B common stock outstanding on October 16, 2017 was 9,411,810 and 2,035,184, respectively.

MICROSTRATEGY INCORPORATED

FORM 10-Q

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PART I - FINANCIAL INFORMATION

Item 1. Financial Statements

MICROSTRATEGY INCORPORATED
CONSOLIDATED BALANCE SHEETS
(in thousands, except per share data)

	September 30, 2017 (unaudited)	December 31, 2016
Assets		
Current assets:		
Cash and cash equivalents	\$ 386,855	\$ 401,975
Restricted cash	764	737
Short-term investments	259,249	187,408
Accounts receivable, net	66,337	83,319
Prepaid expenses and other current assets	17,649	11,548
Total current assets	730,854	684,987
Property and equipment, net	53,712	57,436
Capitalized software development costs, net	3,999	8,497
Deposits and other assets	7,099	5,695
Deferred tax assets, net	17,988	11,704
Total assets	\$ 813,652	\$ 768,319
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable and accrued expenses	\$ 25,368	\$ 36,628
Accrued compensation and employee benefits	36,039	43,323
Deferred revenue and advance payments, net	115,420	105,535
Total current liabilities	176,827	185,486
Deferred revenue and advance payments, net	9,767	13,915
Other long-term liabilities	14,560	16,447
Deferred tax liabilities	159	294
Total liabilities	201,313	216,142
Commitments and Contingencies		
Stockholders' Equity		
Preferred stock undesignated, \$0.001 par value; 5,000 shares authorized; no shares issued or outstanding	0	0
Class A common stock, \$0.001 par value; 330,000 shares authorized; 15,817 shares issued and 9,412 shares outstanding, and 15,805 shares issued and 9,400 shares outstanding, respectively	16	16
Class B convertible common stock, \$0.001 par value; 165,000 shares authorized; 2,035 shares issued and outstanding, and 2,035 shares issued and outstanding, respectively	2	2
Additional paid-in capital	556,209	543,974
Treasury stock, at cost; 6,405 shares	(475,184)	(475,184)
Accumulated other comprehensive loss	(6,683)	(10,743)
Retained earnings	537,979	494,112
Total stockholders' equity	612,339	552,177
Total liabilities and stockholders' equity	\$ 813,652	\$ 768,319

The accompanying notes are an integral part of these Consolidated Financial Statements.

MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF OPERATIONS
(in thousands, except per share data)

	Three Months Ended September 30,	
	2017 (unaudited)	2016 (unaudited)
Revenues:		
Product licenses	\$ 21,553	\$ 29,632
Subscription services	7,725	7,639
Total product licenses and subscription services	29,278	37,271
Product support	72,886	72,460
Other services	23,048	20,165
Total revenues	125,212	129,896
Cost of revenues:		
Product licenses	1,763	2,370
Subscription services	3,592	3,219
Total product licenses and subscription services	5,355	5,589
Product support	4,218	3,959
Other services	14,816	13,387
Total cost of revenues	24,389	22,935
Gross profit	100,823	106,961
Operating expenses:		
Sales and marketing	41,806	39,169
Research and development	19,360	18,069
General and administrative	19,082	19,703
Restructuring costs	0	12
Total operating expenses	80,248	76,953
Income from operations	20,575	30,008
Interest income, net	1,449	507
Other expense, net	(1,903)	(473)
Income before income taxes	20,121	30,042
Provision for income taxes	2,197	3,414
Net income	17,924	26,628
Basic earnings per share (1)	\$ 1.57	\$ 2.33
Weighted average shares outstanding used in computing basic earnings per share	11,447	11,431
Diluted earnings per share (1)	\$ 1.56	\$ 2.31
Weighted average shares outstanding used in computing diluted earnings per share	11,499	11,521

(1) Basic and fully diluted earnings per share for class A and class B common stock are the same.

The accompanying notes are an integral part of these Consolidated Financial Statements.

MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF OPERATIONS
(in thousands, except per share data)

	Nine Months Ended September 30,	
	2017 (unaudited)	2016 (unaudited)
Revenues:		
Product licenses	\$ 61,683	\$ 75,490
Subscription services	23,843	22,775
Total product licenses and subscription services	85,526	98,265
Product support	214,142	212,408
Other services	66,730	61,380
Total revenues	366,398	372,053
Cost of revenues:		
Product licenses	5,182	6,828
Subscription services	10,031	9,667
Total product licenses and subscription services	15,213	16,495
Product support	13,094	10,919
Other services	43,589	42,445
Total cost of revenues	71,896	69,859
Gross profit	294,502	302,194
Operating expenses:		
Sales and marketing	122,635	113,448
Research and development	57,347	54,804
General and administrative	58,921	63,014
Restructuring costs	0	45
Total operating expenses	238,903	231,311
Income from operations	55,599	70,883
Interest income, net	3,449	1,449
Other expense, net	(6,377)	(386)
Income before income taxes	52,671	71,946
Provision for income taxes	8,804	12,162
Net income	43,867	59,784
Basic earnings per share (1)	\$ 3.83	\$ 5.23
Weighted average shares outstanding used in computing basic earnings per share	11,443	11,422
Diluted earnings per share (1)	\$ 3.79	\$ 5.20
Weighted average shares outstanding used in computing diluted earnings per share	11,567	11,503

(1) Basic and fully diluted earnings per share for class A and class B common stock are the same.

The accompanying notes are an integral part of these Consolidated Financial Statements.

MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(in thousands)

	Three Months Ended September 30,	
	2017	2016
	(unaudited)	(unaudited)
Net income	\$ 17,924	\$ 26,628
Other comprehensive income, net of applicable taxes:		
Foreign currency translation adjustment	1,060	269
Unrealized gain on short-term investments	0	10
Total other comprehensive income	1,060	279
Comprehensive income	\$ 18,984	\$ 26,907

	Nine Months Ended September 30,	
	2017	2016
	(unaudited)	(unaudited)
Net income	\$ 43,867	\$ 59,784
Other comprehensive income (loss), net of applicable taxes:		
Foreign currency translation adjustment	4,090	(567)
Unrealized (loss) gain on short-term investments	(30)	16
Total other comprehensive income (loss)	4,060	(551)
Comprehensive income	\$ 47,927	\$ 59,233

The accompanying notes are an integral part of these Consolidated Financial Statements.

MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)

	Nine Months Ended September 30,	
	2017 (unaudited)	2016 (unaudited)
Operating activities:		
Net income	\$ 43,867	\$ 59,784
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	9,838	13,089
Bad debt expense	1,726	1,219
Deferred taxes	(6,214)	(4,439)
Release of liabilities for unrecognized tax benefits	0	(394)
Share-based compensation expense	10,557	8,424
Excess tax benefits from share-based compensation arrangements	0	(1,208)
Changes in operating assets and liabilities:		
Accounts receivable	18,804	8,983
Prepaid expenses and other current assets	(3,954)	(657)
Deposits and other assets	(1,280)	(3,905)
Accounts payable and accrued expenses	(14,468)	(4,668)
Accrued compensation and employee benefits	(8,845)	717
Accrued restructuring costs	0	(56)
Deferred revenue and advance payments, net	1,156	19,435
Other long-term liabilities	(1,904)	(2,288)
Net cash provided by operating activities	49,283	94,036
Investing activities:		
Proceeds from redemption of short-term investments	340,920	273,520
Purchases of property and equipment	(2,282)	(1,560)
Purchases of short-term investments	(411,666)	(292,948)
Net cash used in investing activities	(73,028)	(20,988)
Financing activities:		
Proceeds from sale of class A common stock under exercise of employee stock options	1,677	1,157
Payment of taxes relating to net exercise of employee stock options	0	(3,739)
Excess tax benefits from share-based compensation arrangements	0	1,208
Payments on capital lease obligations and other financing arrangements	(17)	(166)
Net cash provided by (used in) financing activities	1,660	(1,540)
Effect of foreign exchange rate changes on cash, cash equivalents, and restricted cash	6,992	1,654
Net (decrease) increase in cash, cash equivalents, and restricted cash	(15,093)	73,162
Cash, cash equivalents and restricted cash, beginning of period	402,712	292,959
Cash, cash equivalents and restricted cash, end of period	\$ 387,619	\$ 366,121

The accompanying notes are an integral part of these Consolidated Financial Statements.

MICROSTRATEGY INCORPORATED
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

(1) Summary of Significant Accounting Policies

(a) Basis of Presentation

Except for the Consolidated Balance Sheet of MicroStrategy Incorporated (“MicroStrategy” or the “Company”) as of December 31, 2016, which was derived from audited financial statements, the accompanying Consolidated Financial Statements are unaudited. In the opinion of management, all adjustments necessary for a fair statement of such financial position and results of operations have been included. All such adjustments are of a normal recurring nature, unless otherwise disclosed. Interim results are not necessarily indicative of results for a full year.

Certain amounts in the prior year’s Consolidated Financial Statements have been reclassified to conform to current year presentation. Changes in restricted cash have been removed from investing activities in the Consolidated Statements of Cash Flows; instead, restricted cash has been included with total cash and cash equivalents when reconciling the beginning and end of period amounts, as discussed in Note 2, Recent Accounting Standards, to the Consolidated Financial Statements.

The Consolidated Financial Statements and Notes to Consolidated Financial Statements are presented as required by the United States Securities and Exchange Commission (“SEC”) and do not contain certain information included in the Company’s annual financial statements and notes. These financial statements should be read in conjunction with the Company’s audited financial statements and the notes thereto filed with the SEC in the Company’s Annual Report on Form 10-K for the year ended December 31, 2016. There have been no significant changes in the Company’s accounting policies since December 31, 2016, except as discussed in Note 2, Recent Accounting Standards, to the Consolidated Financial Statements.

The accompanying Consolidated Financial Statements include the accounts of the Company and its subsidiaries. All significant intercompany accounts and transactions have been eliminated in consolidation. The Company is not aware of any subsequent event which would require recognition or disclosure.

(2) Recent Accounting Standards

In March 2016, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update No. 2016-09, *Compensation – Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting* (“ASU 2016-09”), to simplify certain aspects of accounting for share-based payment transactions. Under ASU 2016-09, all excess tax benefits should be recognized as income tax expense or benefit in the income statement, regardless of whether the benefit reduces taxes payable in the current period. The excess tax benefits will be combined with other income tax cash flows within operating activities in the statement of cash flows. In addition, excess tax benefits or tax deficiencies will no longer be included in the calculation of assumed proceeds under the treasury stock method of computing diluted earnings per share. ASU 2016-09 also allows companies to make an accounting policy election to either estimate the number of awards expected to vest or to account for forfeitures as they occur, when accruing share-based compensation expense. Lastly, ASU 2016-09 permits employers to withhold up to the employee’s maximum statutory tax rate in applicable jurisdictions and still qualify for the exception to liability classification. Cash paid by an employer when directly withholding shares for tax-withholding purposes should be classified as a financing activity in the statement of cash flows. The Company adopted this guidance on January 1, 2017 and has:

- (i) recognized excess tax benefits as part of the “Provision for income taxes” line item within income before income taxes in the Consolidated Statements of Operations, on a prospective basis.
- (ii) combined the impact of excess tax benefits with the “Deferred taxes” line item within operating activities in the Consolidated Statements of Cash Flows, on a prospective basis.
- (iii) excluded excess tax benefits or tax deficiencies in the calculation of the Company’s diluted earnings per share, on a prospective basis; and
- (iv) made an accounting policy election to account for forfeitures as they occur, on a modified retrospective basis, the impact of which is generally consistent with the Company’s previous method of estimating forfeitures.

No prior periods have been adjusted with respect to the Company’s adoption of ASU 2016-09. In addition, no cumulative-effect adjustments to retained earnings have been recorded as of the beginning of the period because there were no unrecognized excess tax benefits or tax deficiencies outstanding and no expected forfeitures applied to our share-based compensation expense as of the end of the preceding year. The remaining amendments under ASU 2016-09 did not have a material impact on the Company’s consolidated financial position, results of operations, and cash flows.

MICROSTRATEGY INCORPORATED
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

In November 2016, the FASB issued Accounting Standards Update No. 2016-18, *Statement of Cash Flows (Topic 230): Restricted Cash (a consensus of the FASB Emerging Issues Task Force)* (“ASU 2016-18”), to address the diversity in practice that currently exists regarding the classification and presentation of changes in restricted cash on the statement of cash flows. Under ASU 2016-18, entities will be required to include restricted cash and restricted cash equivalents with total cash and cash equivalents when reconciling the beginning and end of period amounts on the statement of cash flows. Entities will also be required to disclose information about the nature of their restricted cash and restricted cash equivalents. Additionally, if cash, cash equivalents, restricted cash and restricted cash equivalents are presented in more than one line item in the statement of financial position, entities will be required to present a reconciliation, either on the face of the statement of cash flows or disclosed in the notes, of the totals in the statement of cash flows to the related line item captions in the statement of financial position. The Company adopted this guidance on January 1, 2017 and retrospectively applied the required updates to its Consolidated Statements of Cash Flows for all periods presented. The Company does not consider its restricted cash balances to be material for further disclosure or reconciliation. The adoption of this guidance did not impact the Company’s consolidated financial position, results of operations, and footnote disclosures.

In May 2014, the FASB issued Accounting Standards Update No. 2014-09, *Revenue from Contracts with Customers (Topic 606)* (“ASU 2014-09”), which supersedes nearly all existing revenue recognition guidance. The standard’s core principle is that an entity should 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. The standard creates a five-step model to achieve its core principle: (i) identify the contract(s) with a customer; (ii) identify the performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the separate performance obligations in the contract; and (v) recognize revenue when (or as) the entity satisfies a performance obligation. In addition, entities must disclose sufficient information to enable users of financial statements to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. Qualitative and quantitative disclosures are required about: (i) the entity’s contracts with customers; (ii) the significant judgments, and changes in judgments, made in applying the guidance to those contracts; and (iii) any assets recognized from the costs to obtain or fulfill a contract with a customer. In August 2015, the FASB issued ASU 2015-14, *Revenue from Contracts with Customers (Topic 606) – Deferral of the Effective Date*, which defers the effective date of ASU 2014-09 to interim and annual periods beginning January 1, 2018. The standard allows entities to apply the standard retrospectively to each prior reporting period presented (“full retrospective adoption”) or retrospectively with the cumulative effect of initially applying the standard recognized at the date of initial application (“modified retrospective adoption”). The Company plans to adopt this guidance on January 1, 2018 and expects adoption using the full retrospective method, which is dependent on system readiness and the Company’s ability to timely compile necessary information related to prior periods. The Company has completed several key accounting assessments related to the standard and is in the process of finalizing its remaining assessments and quantifying prior year adjustments. The Company also continues to evaluate and implement changes to related processes, systems, and internal controls. The Company’s evaluation has included determining whether the unit of account (i.e., performance obligations) will change as compared to current GAAP, as well as determining the standalone selling price of each performance obligation. Standalone selling prices under the new guidance may not be substantially different from the Company’s current methodologies of establishing VSOE of fair value on multiple element arrangements. The Company has identified certain arrangements where revenue may be recognized earlier as compared to current GAAP, in particular term licenses and sales to resellers and OEMs who purchase the Company’s products for resale. The Company expects to recognize license revenue from term licenses upon delivery of the software, rather than over the term of the arrangement. For reseller and OEM deals, the Company expects to recognize revenue when it transfers control of the products to the reseller or OEM, less potential adjustments for returns or price protection, rather than waiting for the reseller or OEM to sell the products to an end user. Upon adoption of the new standard, the Company also expects to begin capitalizing certain commissions payable to its sales force and subsequently amortizing these capitalized costs on a straight-line basis over a three-year period. Further, the Company expects to no longer offset its receivable and deferred revenue balances for unpaid items included in deferred revenue and advance payments. The Company continues to evaluate the impact of this guidance and its subsequent amendments on its consolidated financial position, results of operations, and cash flows, and any assessments made, including the adoption method, are subject to change.

In February 2016, the FASB issued Accounting Standards Update No. 2016-02, *Leases (Topic 842)* (“ASU 2016-02”), which requires lease assets and lease liabilities be recognized for all leases, in addition to the disclosure of key information to enable users of financial statements to assess the amount, timing, and uncertainty of cash flows arising from an entity’s leasing arrangements. ASU 2016-02 defines a lease as a contract, or part of a contract, that conveys both (i) the right to obtain economic benefits from and (ii) direct the use of an identified asset for a period of time in exchange for consideration. Under ASU 2016-02, leases are classified as either finance or operating leases. For finance leases, a lessee shall recognize in profit or loss the amortization of the lease asset and interest on the lease liability. For operating leases, a lessee shall recognize in profit or loss a single lease cost, calculated so that the remaining cost of the lease is allocated over the remaining lease term, generally on a straight-line basis. ASU 2016-02 requires the recognition and measurement of leases at the beginning of the earliest period presented using a modified retrospective approach and is

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effective for interim and annual periods beginning January 1, 2019. Early adoption is permitted. The Company is currently evaluating the impact of this guidance on its consolidated financial position, results of operations, and cash flows.

In October 2016, the FASB issued Accounting Standards Update No. 2016-16, *Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory* (“ASU 2016-16”), to improve the accounting for income tax effects of intra-entity transfers of assets other than inventory. Under ASU 2016-16, the deferral of the income tax consequences of intra-entity transfers of assets other than inventory is eliminated. Entities will be required to recognize the income tax consequences of intra-entity transfers of assets other than inventory when the transfers occur. The standard requires a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption using a modified retrospective approach. ASU 2016-16 is effective for interim and annual periods beginning January 1, 2018. The Company does not expect the adoption of this guidance to have a material impact on its consolidated financial position, results of operations, and cash flows.

(3) Fair Value Measurements

The Company estimates the fair value of cash and cash equivalents, restricted cash, accounts receivable, accounts payable and accrued expenses, and accrued compensation and employee benefits. The Company considers the carrying value of these instruments in the financial statements to approximate fair value due to their short maturities.

(4) Short-term Investments

The Company periodically invests a portion of its excess cash in short-term investment instruments. Substantially all of the Company’s short-term investments are in U.S. Treasury securities and certificates of deposit, and the Company has the ability and intent to hold these investments to maturity. The stated maturity dates of these investments are between three months and one year from the purchase date. These held-to-maturity investments are recorded at amortized cost and included within “Short-term investments” on the accompanying Consolidated Balance Sheets. The fair value of held-to-maturity investments in U.S. Treasury securities and certificates of deposit is determined based on quoted market prices in active markets for identical securities (Level 1 inputs).

The amortized cost, carrying value, and fair value of held-to-maturity investments at September 30, 2017 were \$259.2 million, \$259.2 million, and \$259.2 million, respectively. The amortized cost, carrying value, and fair value of held-to-maturity investments at December 31, 2016 were \$187.3 million, \$187.3 million, and \$187.3 million, respectively. The gross unrecognized holding gains and losses were not material for each of the three and nine months ended September 30, 2017 and 2016. No other-than-temporary impairments related to these investments have been recognized as of September 30, 2017 and December 31, 2016. As of September 30, 2017 and December 31, 2016, the Company’s available-for-sale investments were not material.

(5) Accounts Receivable

Accounts receivable (in thousands) consisted of the following, as of:

	September 30, 2017	December 31, 2016
Billed and billable	\$ 136,340	\$ 188,038
Less: unpaid deferred revenue	(65,912)	(101,538)
Accounts receivable, gross	70,428	86,500
Less: allowance for doubtful accounts	(4,091)	(3,181)
Accounts receivable, net	<u>\$ 66,337</u>	<u>\$ 83,319</u>

The Company offsets its accounts receivable and deferred revenue for any unpaid items included in deferred revenue and advance payments.

The Company maintains an allowance for doubtful accounts which represents its best estimate of probable losses inherent in the accounts receivable balances. The Company evaluates specific accounts when it becomes aware that a customer may not be able to meet its financial obligations due to deterioration of its liquidity or financial viability, credit ratings, or bankruptcy. In addition, the Company periodically adjusts this allowance based on its review and assessment of the aging of receivables.

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(unaudited)

(6) Deferred Revenue and Advance Payments

Deferred revenue and advance payments (in thousands) from customers consisted of the following, as of:

	September 30, 2017	December 31, 2016
Current:		
Deferred product licenses revenue	\$ 10,771	\$ 13,023
Deferred subscription services revenue	15,583	18,303
Deferred product support revenue	141,496	162,781
Deferred other services revenue	8,743	10,015
Gross current deferred revenue and advance payments	176,593	204,122
Less: unpaid deferred revenue	(61,173)	(98,587)
Net current deferred revenue and advance payments	<u>\$ 115,420</u>	<u>\$ 105,535</u>
Non-current:		
Deferred product licenses revenue	\$ 7,320	\$ 9,118
Deferred subscription services revenue	406	1,307
Deferred product support revenue	5,790	5,751
Deferred other services revenue	990	690
Gross non-current deferred revenue and advance payments	14,506	16,866
Less: unpaid deferred revenue	(4,739)	(2,951)
Net non-current deferred revenue and advance payments	<u>\$ 9,767</u>	<u>\$ 13,915</u>

The Company offsets its accounts receivable and deferred revenue for any unpaid items included in deferred revenue and advance payments.

(7) Commitments and Contingencies

(a) Commitments

From time to time, the Company enters into certain types of contracts that require it to indemnify parties against third-party claims. These contracts primarily relate to agreements under which the Company assumes indemnity obligations for intellectual property infringement, as well as other obligations from time to time depending on arrangements negotiated with customers and other third parties. The conditions of these obligations vary. Thus, the overall maximum amount of the Company's indemnification obligations cannot be reasonably estimated. Historically, the Company has not been obligated to make significant payments for these obligations and does not currently expect to incur any material obligations in the future. Accordingly, the Company has not recorded an indemnification liability on its balance sheets as of September 30, 2017 or December 31, 2016.

The Company leases office space and computer and other equipment under operating lease agreements. It also leases certain computer and other equipment under capital lease agreements and licenses certain software under other financing arrangements. Under the lease agreements, in addition to base rent, the Company is generally responsible for certain taxes, utilities and maintenance costs, and other fees; and several leases include options for renewal or purchase. The Company leases approximately 214,000 square feet of office space at a location in Northern Virginia that began serving as its corporate headquarters in October 2010. The term of the lease expires in December 2020.

At September 30, 2017 and December 31, 2016, deferred rent of \$9.5 million and \$12.3 million, respectively, was included in other long-term liabilities, and \$3.7 million and \$3.5 million, respectively, was included in current accrued expenses.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

(b) Contingencies

In December 2011, DataTern, Inc. (“DataTern”) filed a complaint for patent infringement against the Company in the United States District Court for the District of Massachusetts (the “District Court”). The complaint alleged that the Company infringes U.S. Patent No. 6,101,502 (the “’502 Patent”), allegedly owned by DataTern, by making, selling, or offering for sale several of the Company’s products and services including MicroStrategy 9™, MicroStrategy Intelligence Server™, MicroStrategy Business Intelligence Platform™, MicroStrategy Cloud Personal, and other MicroStrategy applications for creating or using data mining, dashboards, business analytics, data storage and warehousing, and web hosting support. The complaint accused the Company of willful infringement and sought an unspecified amount of damages, an award of attorneys’ fees, and preliminary and permanent injunctive relief. In light of a judgment in a separate action involving DataTern in another jurisdiction, in February 2013, MicroStrategy and DataTern filed motions for summary judgment of non-infringement and the District Court entered summary judgment against DataTern. In March 2013, DataTern filed a notice of appeal with the United States Court of Appeals for the Federal Circuit (the “Federal Circuit”). In December 2014, the Federal Circuit issued an opinion vacating the District Court’s summary judgment, stating that the claim construction on which the summary judgment was based was incorrect. In January 2015, the case was remanded to the District Court for further proceedings. A claim construction ruling was issued in February 2017. In August 2017, counsel for DataTern filed a motion to withdraw from the lawsuit. The District Court initially gave DataTern a deadline of September 18, 2017 to find replacement counsel, which was later extended to October 20, 2017. On October 20, 2017, the District Court dismissed the case for failure to prosecute when DataTern failed to identify substitute counsel. The Company has received indemnification requests from certain of its channel partners and customers who were sued by DataTern in the District Court in lawsuits alleging infringement of the ‘502 Patent. The proceedings against these channel partners and customers have been stayed pending the resolution of DataTern’s lawsuit against the Company. The outcome of these matters is not presently determinable, and the Company cannot make a reasonable estimate of the possible loss or range of loss with respect to these matters at this time. Accordingly, no estimated liability for these matters has been accrued in the accompanying Consolidated Financial Statements.

The Company is also involved in various other legal proceedings arising in the normal course of business. Although the outcomes of these other legal proceedings are inherently difficult to predict, management does not expect the resolution of these other legal proceedings to have a material adverse effect on the Company’s financial position, results of operations, or cash flows.

The Company has contingent liabilities that, in management’s judgment, are not probable of assertion. If such unasserted contingent liabilities were to be asserted, or become probable of assertion, the Company may be required to record significant expenses and liabilities in the period in which these liabilities are asserted or become probable of assertion.

(8) Treasury Stock

The Board of Directors has authorized the Company’s repurchase of up to an aggregate of \$800.0 million of its class A common stock from time to time on the open market through April 29, 2018 (the “2005 Share Repurchase Program”), although the program may be suspended or discontinued by the Company at any time. The timing and amount of any shares repurchased will be determined by the Company’s management based on its evaluation of market conditions and other factors. The 2005 Share Repurchase Program may be funded using the Company’s working capital, as well as proceeds from any other funding arrangements that the Company may enter into in the future. During the three and nine months ended September 30, 2017 and 2016, the Company did not repurchase any shares of its class A common stock pursuant to the 2005 Share Repurchase Program. As of September 30, 2017, the Company had repurchased an aggregate of 3,826,947 shares of its class A common stock at an average price per share of \$90.23 and an aggregate cost of \$345.3 million. The average price per share and aggregate cost amounts disclosed above include broker commissions.

(9) Income Taxes

The Company and its subsidiaries conduct business in the United States and various foreign countries and are subject to taxation in numerous domestic and foreign jurisdictions. As a result of its business activities, the Company files tax returns that are subject to examination by various federal, state and local, and foreign tax authorities. With few exceptions, the Company is no longer subject to U.S. federal, state and local, or foreign income tax examination by tax authorities for years before 2013. However, due to its use of state net operating loss (“NOL”) and federal tax credit carryovers in the United States, U.S. tax authorities may attempt to reduce or fully offset the amount of state NOL or federal tax credit carryovers from tax years ended 2006 and forward that were used in later tax years. The Company’s major foreign tax jurisdictions and tax years that remain subject to potential examination are Germany for tax years 2016 and forward, Poland and China for tax years 2012 and forward, Spain for tax years 2014 and forward, and the United

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Kingdom for tax years 2015 and forward. To date there have been no material audit assessments related to audits in any of the applicable foreign jurisdictions.

As of September 30, 2017, the Company had unrecognized tax benefits of \$4.3 million, which are recorded in “Other long-term liabilities” in the Company’s Consolidated Balance Sheet. If recognized, \$3.5 million of these unrecognized tax benefits would impact the effective tax rate. The Company recognizes estimated accrued interest related to unrecognized income tax benefits in the provision for income tax accounts. Penalties relating to income taxes, if incurred, would also be recognized as a component of the Company’s provision for income taxes. Over the next 12 months, the amount of the Company’s liability for unrecognized tax benefits is not expected to change by a material amount. As of September 30, 2017, the amount of cumulative accrued interest expense on unrecognized income tax benefits was approximately \$0.7 million.

The following table summarizes the Company’s deferred tax assets, net of deferred tax liabilities and valuation allowance (in thousands), as of:

	September 30, 2017	December 31, 2016
Deferred tax assets, net of deferred tax liabilities	\$ 18,773	\$ 12,242
Valuation allowance	(944)	(832)
Deferred tax assets, net of deferred tax liabilities and valuation allowance	<u>\$ 17,829</u>	<u>\$ 11,410</u>

The valuation allowance as of September 30, 2017 and December 31, 2016 related to certain foreign tax credit carryforwards that, in our present estimation, more likely than not will not be realized.

The Company has estimated its annual effective tax rate for the full fiscal year 2017 and applied that rate to its income before income taxes in determining its provision for income taxes for the nine months ended September 30, 2017. The Company also records discrete items in each respective period as appropriate. The estimated effective tax rate is subject to fluctuation based on the level and mix of earnings and losses by tax jurisdiction, foreign tax rate differentials, and the relative impact of permanent book to tax differences (e.g., non-deductible expenses). Each quarter, a cumulative adjustment is recorded for any fluctuations in the estimated annual effective tax rate as compared to the prior quarter. As a result of these factors, and due to potential changes in the Company’s period-to-period results, fluctuations in the Company’s effective tax rate and respective tax provisions or benefits may occur.

For the nine months ended September 30, 2017, the Company recorded a provision for income taxes of \$8.8 million that resulted in an effective tax rate of 16.7%, as compared to a provision for income taxes of \$12.2 million that resulted in an effective tax rate of 16.9% for the nine months ended September 30, 2016. The change in the effective tax rate in 2017 is mainly due to the change in the expected proportion of U.S. versus foreign income and certain discrete tax items.

Except as discussed below, the Company intends to indefinitely reinvest its undistributed earnings of all of its foreign subsidiaries. Therefore, the annualized effective tax rate applied to the Company’s pre-tax income does not include any provision for U.S. federal and state income taxes on the amount of the undistributed foreign earnings. U.S. federal tax laws, however, require the Company to include in its U.S. taxable income certain investment income earned outside of the United States in excess of certain limits (“Subpart F deemed dividends”). Because Subpart F deemed dividends are already required to be recognized in the Company’s U.S. federal income tax return, the Company regularly repatriates Subpart F deemed dividends to the United States and no additional tax is incurred on the distribution. As of September 30, 2017 and December 31, 2016, the amount of cash and cash equivalents and short-term investments held by the Company’s U.S. entities was \$284.1 million and \$279.8 million, respectively, and by the Company’s non-U.S. entities was \$362.0 million and \$309.6 million, respectively. If the cash and cash equivalents and short-term investments held by the Company’s non-U.S. entities were to be repatriated to the United States, the Company would generate U.S. taxable income to the extent of the Company’s undistributed foreign earnings, which amounted to \$322.0 million at December 31, 2016. Although the tax impact of repatriating these earnings is difficult to determine, the Company does not expect the maximum effective tax rate applicable to such repatriation to exceed the U.S. statutory rate of 35.0%, after considering applicable foreign tax credits.

In determining the Company’s provision or benefit for income taxes, net deferred tax assets, liabilities, and valuation allowances, management is required to make judgments and estimates related to projections of domestic and foreign profitability, the timing and extent of the utilization of NOL carryforwards, applicable tax rates, transfer pricing methods, and prudent and feasible tax planning strategies. As a multinational company, the Company is required to calculate and provide for estimated income tax liabilities for each of the tax jurisdictions in which it operates. This process involves estimating current tax obligations and exposures in each jurisdiction, as well as making judgments regarding the future recoverability of deferred tax assets. Changes in the estimated level of

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annual pre-tax income, changes in tax laws, particularly changes related to the utilization of NOLs in various jurisdictions, and changes resulting from tax audits can all affect the overall effective income tax rate which, in turn, impacts the overall level of income tax expense or benefit and net income.

Judgments and estimates related to the Company's projections and assumptions are inherently uncertain. Therefore, actual results could differ materially from projections. The timing and manner in which the Company will use research and development tax credit carryforward tax assets, alternative minimum tax credit carryforward tax assets, and foreign tax credit carryforward tax assets in any year, or in total, may be limited by provisions of the Internal Revenue Code regarding changes in the Company's ownership. Currently, the Company expects to use these tax assets, subject to Internal Revenue Code limitations, within the carryforward periods. Valuation allowances have been established where the Company has concluded that it is more likely than not that such deferred tax assets are not realizable. If the Company is unable to sustain profitability in future periods, it may be required to increase the valuation allowance against the deferred tax assets, which could result in a charge that would materially adversely affect net income in the period in which the charge is incurred.

(10) Share-based Compensation

The Company's 2013 Stock Incentive Plan (as amended, the "2013 Equity Plan") authorizes the issuance of various types of share-based awards to the Company's employees, officers, directors, and other eligible participants. As of September 30, 2017, the total number of shares of the Company's class A common stock authorized for issuance under the 2013 Equity Plan was 1,700,000 shares.

During the three months ended September 30, 2017 and 2016, no stock option awards were granted pursuant to the 2013 Equity Plan. As of September 30, 2017, there were options to purchase 941,633 shares of class A common stock outstanding under the 2013 Equity Plan. As of September 30, 2017, there were 535,000 remaining shares of class A common stock authorized for future issuance under the 2013 Equity Plan.

The following table summarizes the Company's stock option activity (in thousands, except per share data and years) for the three months ended September 30, 2017:

	Stock Options Outstanding			
	Shares	Weighted Average Exercise Price Per Share	Aggregate Intrinsic Value	Weighted Average Remaining Contractual Term (Years)
Balance as of July 1, 2017	949	\$ 146.79		
Granted	0	0.00		
Exercised	0	0.00	\$ 0	
Forfeited/Expired	(7)	201.25		
Balance as of September 30, 2017	<u>942</u>	<u>\$ 146.36</u>		
Exercisable as of September 30, 2017	529	\$ 135.31	\$ 2,524	6.8
Expected to vest as of September 30, 2017	413	\$ 160.54	906	7.8
Total	<u>942</u>	<u>\$ 146.36</u>	<u>\$ 3,430</u>	7.3

Stock options outstanding as of September 30, 2017 are comprised of the following range of exercise prices per share (in thousands, except per share data and years):

Range of Exercise Prices per Share	Stock Options Outstanding at September 30, 2017		
	Shares	Weighted Average Exercise Price Per Share	Weighted Average Remaining Contractual Term (Years)
\$117.85 - \$120.00	25	\$ 118.55	6.6
\$120.01 - \$150.00	510	\$ 121.43	6.6
\$150.01 - \$180.00	209	\$ 167.41	7.4
\$180.01 - \$201.25	198	\$ 191.90	8.9
Total	<u>942</u>	<u>\$ 146.36</u>	7.3

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An aggregate of 15,000 stock options with an aggregate fair value of \$ 1.2 million vested during the three months ended September 30, 2017. Beginning January 1, 2017, the Company made an accounting policy election to prospectively account for forfeitures as they occur. Therefore, share-based compensation expense has not been adjusted for any estimated forfeitures. Prior periods have not been restated.

For the three and nine months ended September 30, 2017, the Company recognized approximately \$3.7 million and \$10.6 million, respectively, in share-based compensation expense from stock options granted under the 2013 Equity Plan. For the three and nine months ended September 30, 2016, the Company recognized approximately \$3.3 million and \$8.4 million, respectively, in share-based compensation expense from stock options granted under the 2013 Equity Plan. As of September 30, 2017, there was approximately \$20.8 million of total unrecognized share-based compensation expense related to unvested stock options. The Company expects to recognize this remaining share-based compensation expense over a weighted average vesting period of approximately 2.1 years.

During the nine months ended September 30, 2016, the Company was able to recognize and utilize tax deductions related to equity compensation in excess of compensation recognized for financial reporting that was generated under the 2013 Equity Plan. Accordingly, additional paid-in capital increased by \$1.2 million during the nine months ended September 30, 2016. Beginning January 1, 2017, excess tax benefits are no longer recognized as additional paid-in capital; instead, they are prospectively included within the provision for income taxes. Prior periods have not been restated.

During the nine months ended September 30, 2016, the Company wrote off \$1.7 million of deferred tax assets related to certain vested stock options that were no longer exercisable. Accordingly, additional paid-in capital decreased by \$1.7 million during the nine months ended September 30, 2016. No such adjustment was made during the nine months ended September 30, 2017.

During the nine months ended September 30, 2016, the Company paid \$3.7 million to tax authorities related to the net exercise of a stock option under the 2013 Equity Plan. This payment resulted in a \$3.7 million reduction to additional paid-in capital during the nine months ended September 30, 2016. No net exercises of stock options were made during the nine months ended September 30, 2017.

(11) Common Equity and Earnings per Share

The Company has two classes of common stock: class A common stock and class B common stock. Holders of class A common stock generally have the same rights, including rights to dividends, as holders of class B common stock, except that holders of class A common stock have one vote per share while holders of class B common stock have ten votes per share. Each share of class B common stock is convertible at any time, at the option of the holder, into one share of class A common stock. As such, basic and fully diluted earnings per share for class A common stock and for class B common stock are the same. The Company has never declared or paid any cash dividends on either class A or class B common stock. As of September 30, 2017 and December 31, 2016, there were no shares of preferred stock issued or outstanding.

Potential shares of common stock are included in the diluted earnings per share calculation when dilutive. Potential shares of common stock, consisting of common stock issuable upon exercise of outstanding stock options, are calculated using the treasury stock method. Beginning January 1, 2017, excess tax benefits are no longer included in the calculation of diluted earnings per share, on a prospective basis. For the three and nine months ended September 30, 2017, stock options issued under the 2013 Equity Plan to purchase a weighted average of approximately 412,000 and 385,000 shares of class A common stock, respectively, were excluded from the diluted earnings per share calculation because their impact would have been anti-dilutive. For the three and nine months ended September 30, 2016, stock options issued under the 2013 Equity Plan to purchase a weighted average of approximately 380,000 and 373,000 shares of class A common stock, respectively, were excluded from the diluted earnings per share calculation because their impact would have been anti-dilutive.

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(12) Segment Information

The Company manages its business in one reportable operating segment. The Company's one reportable operating segment is engaged in the design, development, marketing, and sales of its software platform through licensing arrangements and cloud-based subscriptions and related services. The following table presents total revenues, gross profit, and long-lived assets, excluding long-term deferred tax assets, (in thousands) according to geographic region:

Geographic regions:	<u>Domestic</u>	<u>EMEA</u>	<u>Other Regions</u>	<u>Consolidated</u>
Three months ended September 30, 2017				
Total revenues	\$ 72,439	\$ 40,018	\$ 12,755	\$ 125,212
Gross profit	\$ 57,716	\$ 32,716	\$ 10,391	\$ 100,823
Three months ended September 30, 2016				
Total revenues	\$ 82,513	\$ 34,636	\$ 12,747	\$ 129,896
Gross profit	\$ 68,084	\$ 28,183	\$ 10,694	\$ 106,961
Nine months ended September 30, 2017				
Total revenues	\$ 220,177	\$ 107,761	\$ 38,460	\$ 366,398
Gross profit	\$ 175,814	\$ 86,936	\$ 31,752	\$ 294,502
Nine months ended September 30, 2016				
Total revenues	\$ 228,427	\$ 106,833	\$ 36,793	\$ 372,053
Gross profit	\$ 185,052	\$ 86,131	\$ 31,011	\$ 302,194
As of September 30, 2017				
Long-lived assets	\$ 59,728	\$ 3,542	\$ 1,540	\$ 64,810
As of December 31, 2016				
Long-lived assets	\$ 67,031	\$ 3,256	\$ 1,341	\$ 71,628

The domestic region consists of the United States and Canada. The EMEA region includes operations in Europe, the Middle East, and Africa. The other regions include all other foreign countries, generally comprising Latin America and the Asia Pacific region. For the three and nine months ended September 30, 2017 and 2016, no individual foreign country accounted for 10% or more of total consolidated revenues.

For the three and nine months ended September 30, 2017 and 2016, no individual customer accounted for 10% or more of total consolidated revenues.

As of September 30, 2017 and December 31, 2016, no individual foreign country accounted for 10% or more of total consolidated assets.

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

FORWARD-LOOKING INFORMATION

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). For this purpose, any statements contained herein that are not statements of historical fact, including without limitation, certain statements regarding industry prospects and our results of operations or financial position, may be deemed to be forward-looking statements. Without limiting the foregoing, the words “believes,” “anticipates,” “plans,” “expects,” and similar expressions are intended to identify forward-looking statements. The important factors discussed under “Part II. Item 1A. Risk Factors,” among others, could cause actual results to differ materially from those indicated by forward-looking statements made herein and presented elsewhere by management from time to time. Such forward-looking statements represent management’s current expectations and are inherently uncertain. Investors are warned that actual results may differ from management’s expectations.

Overview

MicroStrategy® is a leading worldwide provider of enterprise analytics and mobility software. Our mission is to provide enterprise customers with a world-class software platform and expert services so they can deploy unique intelligence applications.

MicroStrategy 10™, our flagship platform offering, consolidates analytics and mobility in a single unified platform. The MicroStrategy 10 platform is available on Windows®, Linux and Amazon Web Services (“AWS”), and as a hosted service offering through MicroStrategy Cloud™. Our enterprise platform offers a comprehensive suite of business intelligence functionality, from data discovery to mobile analytics, data mining, Big Data analytics, enterprise reporting and powerful identity intelligence generated by digital credentials. MicroStrategy 10 builds on proven enterprise capabilities to make sophisticated, high-performance analytics more accessible, easier to use, and faster.

MicroStrategy Analytics™ empowers large organizations to analyze vast amounts of data and securely distribute actionable business insight throughout an enterprise, while also being able to cater to smaller workgroups and departmental use via MicroStrategy Desktop™. MicroStrategy Analytics delivers reports and dashboards, and enables users to conduct ad hoc analysis and share insights anywhere, anytime, via mobile devices (via MicroStrategy Mobile™) or the web (via MicroStrategy Web™). It also combines the agility and productivity of self-service visual data discovery with the security, scalability, and governance features of enterprise-grade business intelligence. Additionally, MicroStrategy Analytics delivers powerful identity intelligence on user behavior and resource utilization (via Usher™).

MicroStrategy Web is the primary interface for analysts, data scientists, consumers and developers, offering interactive reporting, dashboarding, and ad-hoc data discovery capabilities through a web browser. With MicroStrategy Web, a user can design and deliver dashboards across various styles of business intelligence, including scorecards, pixel-perfect documents and invoices, and interactive reports and statements, as well as for visual data discovery. MicroStrategy Web can also connect to a wide range of data sources, and be used to build sophisticated advanced analytical models that may be inserted within dashboards and reports. MicroStrategy reports and dashboards can be personalized and automatically delivered to thousands of users with MicroStrategy Server™’s advanced distribution capabilities. Web applications can also be extensively customized and embedded into other applications using MicroStrategy Web SDK for a branded experience.

MicroStrategy Desktop is a free, standalone, on-premise, single-user tool for fast, powerful, and easy-to-use self-service visual data discovery. It enables business users to analyze and gain valuable insight and understanding into their organizations’ data by quickly creating stunning and useful visualizations and dashboards, without assistance from the IT department. MicroStrategy Desktop can be readily downloaded and installed on a PC or Mac, making the power of MicroStrategy 10 easily available. MicroStrategy Desktop can be used while offline and while not connected to MicroStrategy Server. MicroStrategy Desktop connects to the MicroStrategy Server when needed, allowing for governance workflows that deliver data discovery capabilities to the enterprise at scale.

MicroStrategy Mobile is fully integrated into the MicroStrategy Analytics platform, so it is easy to leverage existing visualizations, reports and dashboards to instantly deploy mobile business intelligence. In addition, MicroStrategy Mobile extends beyond analytics to enable organizations to rapidly build custom enterprise mobility applications that deliver analytics combined with transactions, multimedia and mapping to support business workflows. The robust code-free application development platform is designed to reduce development costs and accelerate the deployment of native mobile business apps optimized for both iOS® and Android™. Companies can build fully native iOS and Android apps that take advantage of the unique device and operating system capabilities (e.g., GPS/location, calendar, and camera) on those devices. MicroStrategy Mobile is an easy, fast, and cost-effective vehicle for mobilizing an organization’s information systems, including its data warehouses, business intelligence, ERP, CRM, and web applications that are currently accessible only on the desktop. With MicroStrategy Mobile, businesses can transform their entire workforce into a

connected and more productive mobile workforce. With mobile access to critical corporate data and systems that drive the business, employees can have a virtual office in their hands at all times. MicroStrategy Mobile also enables companies to deploy customized, white-labeled mobile apps to business partners and customers. These apps can serve as new or enhanced offerings that differentiate an organization's product or service to partners or customers.

Usher provides a highly secure, convenient way for organizations to deliver to its users a single mobile identity badge cryptographically linked to its owner's smartphone and dynamically linked to an enterprise's existing identity repositories. In the Enterprise Internet of Things ("EIoT") paradigm, interactions between Usher users and enterprise resources generate real-time telemetry, which can be efficiently harnessed in Usher Analytics™, creating actionable intelligence. Usher badges work on standard smartphones running on iOS or the Android platform and include an Apple Watch® integration. Through the use of Bluetooth®, QR codes, biometrics, push notifications, time-limited PIN codes, and other authentication methods, Usher badge users can log into applications, VPNs, and workstations, unlock doors and other physical gateways, and validate each other's identities. Usher badge users are also able to scan barcodes for asset tracking applications. Usher can additionally serve as a powerful enterprise productivity tool by enabling managers to gain insight into the location and activity of their distributed workforces via the Usher Professional™ application, where managers can see badge user activity on a nearly real-time map and engage in two-way communication with badge users to manage or direct a workforce. By delivering strong yet convenient authentication that can be extended to nearly every corporate system, Usher as an EIoT solution can uncover insights, reduce infrastructure complexity, and secure assets -- all to help businesses flourish in the age of connected devices and connected people. Usher addresses some of the biggest challenges facing corporations today, including authentication, identity and access management, and resource authorization, while applying industry-leading business intelligence and analytics to an enterprise's infrastructure.

MicroStrategy on AWS allows organizations to harness the power of data through our enterprise solutions via the cloud. Compared to traditional on-premise approaches, MicroStrategy on AWS is architected to deliver best-of-breed MicroStrategy software via the cloud, with pre-configured, ready-to-go servers, coupled with the required supporting infrastructure. With MicroStrategy on AWS, customers can launch enterprise analytics environments within minutes via a web-based provisioning tool, and use the full MicroStrategy 10 offering. MicroStrategy on AWS deploys MicroStrategy directly into the customer's AWS account where the customer maintains and manages the environment.

For customers looking for a Platform-as-a-Service (PaaS) experience, MicroStrategy Cloud offers managed services that deliver the full breadth of platform capabilities along with a dedicated cloud operations team to deploy the platform in the cloud. MicroStrategy Cloud is well suited for organizations without extensive IT resources to maintain and manage the cloud infrastructure on their own. MicroStrategy Cloud offers a 99.9% Service Level Agreement for availability, and is backed by a team of experts and dedicated tech support staff that provides continuous monitoring and alerting. MicroStrategy Cloud maintains and keeps up to date on compliance and security certifications to help ensure the environments adhere to the Service Organization Control 2, ISO 27001, Payment Card Industry, Health Insurance Portability and Accountability Act, and Privacy Shield standards.

System integrators, value-added resellers, and OEMs around the world rely on MicroStrategy's capabilities, including its functionality, workflows, report presentation, user management, security, administration, system configuration, and monitoring to build branded and custom applications of their own. MicroStrategy's open architecture and APIs make it especially suitable for developing custom functionality or integrating with other applications. Organizations seeking to add analytics features to their own offerings can easily and directly embed the platform into their business applications or portals with white labeling and single sign-on options.

The following table sets forth certain operating highlights (in thousands) for the three and nine months ended September 30, 2017 and 2016:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenues				
Product licenses	\$ 21,553	\$ 29,632	\$ 61,683	\$ 75,490
Subscription services	7,725	7,639	23,843	22,775
Total product licenses and subscription services	29,278	37,271	85,526	98,265
Product support	72,886	72,460	214,142	212,408
Other services	23,048	20,165	66,730	61,380
Total revenues	125,212	129,896	366,398	372,053
Cost of revenues				
Product licenses	1,763	2,370	5,182	6,828
Subscription services	3,592	3,219	10,031	9,667
Total product licenses and subscription services	5,355	5,589	15,213	16,495
Product support	4,218	3,959	13,094	10,919
Other services	14,816	13,387	43,589	42,445
Total cost of revenues	24,389	22,935	71,896	69,859
Gross profit	100,823	106,961	294,502	302,194
Operating expenses				
Sales and marketing	41,806	39,169	122,635	113,448
Research and development	19,360	18,069	57,347	54,804
General and administrative	19,082	19,703	58,921	63,014
Restructuring costs	0	12	0	45
Total operating expenses	80,248	76,953	238,903	231,311
Income from operations	\$ 20,575	\$ 30,008	\$ 55,599	\$ 70,883

The analytics market is highly competitive and our results of operations depend on our ability to market and sell offerings that provide customers with greater value than those offered by our competitors. Our success depends on the effectiveness with which we can differentiate our products from both large software vendors that provide products across multiple lines of business, including one or more products that directly compete with our products, and other analytics vendors across large, mid-sized, and small opportunities. A key differentiator that we believe distinguishes our offerings is that we offer a single platform with comprehensive analytics that supports both the needs of IT and business users, by delivering easy-to-use data discovery combined with enterprise governance.

Organizations recently have sought, and we expect may continue to seek, to standardize their various analytics applications around a single software platform. This trend presents both opportunities and challenges for our business. It offers us the opportunity to increase the size of transactions with new customers and to expand the size of our analytics installations with existing customers. On the other hand, it presents the challenge that we may not be able to penetrate accounts that a competitor has penetrated or in which a competitor is the incumbent analytics provider.

In addition, there is increased market demand for analysis of a wider variety of data sources, including sensor data, social data, Web log data, and other data types. These new data sources are driving massive increases in the volume of data that can potentially be analyzed (these large-scale data sets are known as “Big Data”), which in turn is accelerating development of new storage technologies like Hadoop® and NoSQL databases. The demand for analytics on Big Data represents an opportunity for us, as it opens up new potential applications and use cases for our technology. It also creates a challenge as we will need to continually enhance our technology to support emerging data sources, deliver faster performance necessary to support analysis of Big Data, and support analysis of a wider variety of data types, such as unstructured, semi-structured, and streaming data.

The market for enterprise mobility apps is rapidly changing, highly competitive, and complex with many competitors and different offerings ranging from fully custom-coded applications to plug-and-play solutions. While organizations vary greatly in their approach to, and pace of adoption of, mobile solutions, they are increasingly accelerating the transition of their businesses onto mobile devices, such as tablets and smartphones. Over the next few years, we expect that organizations will continue to construct their information and systems to take advantage of the efficiencies and cost savings of mobile computing. Ultimately, we expect that the majority of routine business tasks and workflows will become available as mobile-optimized touch-enabled apps.

We have undertaken multiple initiatives to address these opportunities and challenges, including:

- introducing Dossier™, a new way to consume analytics on MicroStrategy 10 using an interactive book of dashboards and reports that combines relevant analytics into a single place, with a new streamlined interface that goes beyond dashboards and brings key data into a format that users can understand and use to make better, actionable decisions and identify new opportunities (available on MicroStrategy Web and tablets via native apps for both iOS and Android);
- releasing MicroStrategy on AWS, which allows customers to spin up their own instance of the full MicroStrategy platform in the cloud, and expanding support for MicroStrategy on AWS in more locations (such as London, Sydney, Frankfurt, Tokyo, Ireland, Ohio, Oregon, and Northern Virginia) and in more languages (such as English, French, Italian, Portuguese, Spanish, Dutch, Japanese, Korean, and Chinese);
- improving access to MicroStrategy 10 via easy-to-access trial and evaluation versions of products on our website, including a free 30-day trial to MicroStrategy on AWS that lets prospects experience our enterprise capabilities and allows existing customers to try new features;
- making our MicroStrategy Desktop product freely available to new and existing users, which helps to (i) increase public awareness, (ii) increase the adoption of the product into existing accounts by empowering MicroStrategy Web users to seamlessly connect MicroStrategy Desktop to their existing projects, upload and download dashboards from the server, work offline, and try new functionality such as data blending and wrangling, and (iii) generate upsell opportunities for us by seeding the need for bigger enterprise capabilities like pixel-perfect dashboards, automated distribution, governance and security, all of which are available with our enterprise platform;
- offering new collaboration tools that allow more users to interact and collaborate on analytics content, which can ultimately drive adoption to more users across the enterprise;
- delivering new out-of-the-box connectors that help analysts visualize log files and semi-structured data such as Solr, Box, One Drive, Elasticsearch and others; and
- introducing greater flexibility to visualize and interact with multi-level or ragged hierarchy reports against MDX (Multidimensional Expressions) sources such as Essbase and MSAS, and delivering enhancements such as dynamic filtering and support for derived attributes and metrics.

As part of our efforts to take greater advantage of the opportunities in the market and grow our market share, we expect to increase our level of sales and marketing expenditures and investment in our technology products and personnel in future periods.

As of September 30, 2017, we had a total of 2,178 employees, of whom 1,079 were based in the United States and 1,099 were based internationally. Of our 2,178 employees, 635 were engaged in sales and marketing, 539 in research and development, 701 in subscription, product support, consulting, and education services, and 303 in finance, administration, and corporate operations. The following table summarizes employee headcount, as of the dates indicated:

	September 30, 2016	December 31, 2016	September 30, 2017
Subscription services	49	48	50
Product support	162	171	163
Consulting	458	453	447
Education	35	39	41
Sales and marketing	571	587	635
Research and development	528	512	539
General and administrative	317	323	303
Total headcount	<u>2,120</u>	<u>2,133</u>	<u>2,178</u>

We lease approximately 214,000 square feet of office space at a location in Northern Virginia that began serving as our corporate headquarters in October 2010. Our lease for this property expires in December 2020. We recognize lease expense on continuing operating leases ratably over the term of the lease.

As discussed in Note 10, Share-based Compensation, to the Consolidated Financial Statements, we have outstanding stock options to purchase shares of our class A common stock under our 2013 Equity Plan. Share-based compensation expense (in thousands) from these stock option awards was recognized in the following operating expense line items in our Consolidated Statements of Operations for the periods indicated:

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Sales and marketing	\$ 635	\$ 871	\$ 1,553	\$ 2,374
Research and development	291	199	1,191	636
General and administrative	2,742	2,279	7,813	5,414
Total share-based compensation expense	\$ 3,668	\$ 3,349	\$ 10,557	\$ 8,424

As of September 30, 2017, we estimated that approximately \$20.8 million of additional share-based compensation expense for options granted under the 2013 Equity Plan will be recognized over a remaining weighted average period of 2.1 years.

We base our internal operating expense forecasts on expected revenue trends and strategic objectives. Many of our expenses, such as office leases and certain personnel costs, are relatively fixed. Accordingly, any shortfall in revenue may cause significant variation in our operating results. We therefore believe that quarter-to-quarter comparisons of our operating results may not be a good indication of our future performance.

Non-GAAP Financial Measures

We are providing a supplemental financial measure for income from operations that excludes the impact of our share-based compensation arrangements and restructuring activities. This financial measure is not a measurement of financial performance under generally accepted accounting principles in the United States (“GAAP”) and, as a result, this financial measure may not be comparable to similarly titled measures of other companies. Management uses this non-GAAP financial measure internally to help understand, manage, and evaluate our business performance and to help make operating decisions. We believe that this non-GAAP financial measure is also useful to investors and analysts in comparing our performance across reporting periods on a consistent basis because it excludes a significant non-cash expense that we believe is not reflective of our general business performance and restructuring charges that we believe are not reflective of ongoing operating results. In addition, accounting for share-based compensation arrangements requires significant management judgment and the resulting expense could vary significantly in comparison to other companies. Therefore, we believe the use of this non-GAAP financial measure can also facilitate comparison of our operating results to those of our competitors.

Non-GAAP financial measures are subject to material limitations as they are not in accordance with, or a substitute for, measurements prepared in accordance with GAAP. For example, we expect that share-based compensation expense, which is excluded from our non-GAAP financial measure, will continue to be a significant recurring expense over the coming years and is an important part of the compensation provided to certain employees, officers, and directors. Our non-GAAP financial measure is not meant to be considered in isolation and should be read only in conjunction with our Consolidated Financial Statements, which have been prepared in accordance with GAAP. We rely primarily on such Consolidated Financial Statements to understand, manage, and evaluate our business performance, and use the non-GAAP financial measure only supplementally.

The following is a reconciliation of our non-GAAP financial measure to its most directly comparable GAAP measure (in thousands) for the periods indicated:

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Reconciliation of non-GAAP income from operations:				
Income from operations	\$ 20,575	\$ 30,008	\$ 55,599	\$ 70,883
Share-based compensation expense	3,668	3,349	10,557	8,424
Restructuring costs	0	12	0	45
Non-GAAP income from operations	\$ 24,243	\$ 33,369	\$ 66,156	\$ 79,352

Critical Accounting Policies

Our discussion and analysis of our financial condition and results of operations are based on our Consolidated Financial Statements, which have been prepared in accordance with GAAP. The preparation of our Consolidated Financial Statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, and equity, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. These estimates, particularly estimates relating to revenue recognition, have a material impact on our financial statements. In some cases, changes in accounting estimates are reasonably likely to occur from period to period. Actual results and outcomes could differ from these estimates and assumptions.

The section “Critical Accounting Policies” included in Item 7 and the section “Summary of Significant Accounting Policies” (Note 2) included in Item 15 of our Annual Report on Form 10-K for the year ended December 31, 2016 provides a more detailed explanation of the judgments made and a discussion of our accounting estimates and policies. There have been no significant changes in such estimates and policies since December 31, 2016, other than the adoption of ASU 2016-09, as discussed in Note 2, Recent Accounting Standards, to the Consolidated Financial Statements.

Impact of Foreign Currency Exchange Rate Fluctuations on Results of Operations

We conduct a significant portion of our business in currencies other than the U.S. dollar, the currency in which we report our Consolidated Financial Statements. As currency rates change from quarter over quarter and year over year, our results of operations may be impacted. The table below summarizes the impact (in thousands) of fluctuations in foreign currency exchange rates on certain components of our Consolidated Statements of Operations by showing the increase (decrease) in revenues or expenses, as applicable, from the same period in the prior year. The term “international” refers to operations outside of the United States and Canada.

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
International product licenses revenues	\$ 287	\$ (103)	\$ 101	\$ (757)
International subscription services revenues	16	(86)	(215)	(166)
International product support revenues	836	(678)	(674)	(3,293)
International other services revenues	329	(199)	(233)	(738)
Cost of product support revenues	10	(80)	(105)	(240)
Cost of other services revenues	273	(106)	64	(748)
Sales and marketing expenses	323	(178)	(410)	(1,447)
Research and development expenses	(2)	(241)	(353)	(710)
General and administrative expenses	45	(403)	(258)	(921)

For example, if there had been no change to foreign currency exchange rates from 2016 to 2017, international product licenses revenues would have been \$8.9 million rather than \$9.2 million and \$25.8 million rather than \$25.9 million for the three and nine months ended September 30, 2017, respectively. If there had been no change to foreign currency exchange rates from 2016 to 2017, international product support revenues would have been \$29.0 million rather than \$29.8 million and \$84.5 million rather than \$83.8 million for the three and nine months ended September 30, 2017, respectively. If there had been no change to foreign currency exchange rates from 2016 to 2017, sales and marketing expenses would have been \$41.5 million rather than \$41.8 million and \$123.0 million rather than \$122.6 million for the three and nine months ended September 30, 2017, respectively.

Results of Operations

Comparison of the three and nine months ended September 30, 2017 and 2016

Revenues

Except as otherwise indicated herein, the term “domestic” refers to operations in the United States and Canada, and the term “international” refers to operations outside of the United States and Canada.

Product licenses and subscription services revenues. The following table sets forth product licenses and subscription services revenues (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
Product Licenses and Subscription Services Revenues:						
Product Licenses						
Domestic	\$ 12,403	\$ 21,981	-43.6%	\$ 35,815	\$ 48,148	-25.6%
International	9,150	7,651	19.6%	25,868	27,342	-5.4%
Total product licenses revenues	<u>21,553</u>	<u>29,632</u>	-27.3%	<u>61,683</u>	<u>75,490</u>	-18.3%
Subscription Services						
Domestic	5,981	6,587	-9.2%	18,926	19,757	-4.2%
International	1,744	1,052	65.8%	4,917	3,018	62.9%
Total subscription services revenues	<u>7,725</u>	<u>7,639</u>	1.1%	<u>23,843</u>	<u>22,775</u>	4.7%
Total product licenses and subscription services revenues	<u>\$ 29,278</u>	<u>\$ 37,271</u>	-21.4%	<u>\$ 85,526</u>	<u>\$ 98,265</u>	-13.0%

The following table sets forth a summary, grouped by size, of the number of recognized product licenses transactions for the periods indicated:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Product Licenses Transactions with Recognized Licenses Revenue in the Applicable Period:				
More than \$1.0 million in licenses revenue recognized	3	4	5	7
Between \$0.5 million and \$1.0 million in licenses revenue recognized	6	4	11	17
Total	<u>9</u>	<u>8</u>	<u>16</u>	<u>24</u>
Domestic:				
More than \$1.0 million in licenses revenue recognized	3	4	5	6
Between \$0.5 million and \$1.0 million in licenses revenue recognized	3	3	6	11
Total	<u>6</u>	<u>7</u>	<u>11</u>	<u>17</u>
International:				
More than \$1.0 million in licenses revenue recognized	0	0	0	1
Between \$0.5 million and \$1.0 million in licenses revenue recognized	3	1	5	6
Total	<u>3</u>	<u>1</u>	<u>5</u>	<u>7</u>

The following table sets forth the recognized revenue (in thousands) attributable to product licenses transactions, grouped by size, and related percentage changes for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
Product Licenses Revenue Recognized in the Applicable Period:						
More than \$1.0 million in licenses revenue recognized	\$ 3,800	\$ 7,910	-52.0%	\$ 6,651	\$ 12,182	-45.4%
Between \$0.5 million and \$1.0 million in licenses revenue recognized	4,025	2,189	83.9%	7,161	10,288	-30.4%
Less than \$0.5 million in licenses revenue recognized	13,728	19,533	-29.7%	47,871	53,020	-9.7%
Total	<u>21,553</u>	<u>29,632</u>	-27.3%	<u>61,683</u>	<u>75,490</u>	-18.3%
<i>Domestic:</i>						
More than \$1.0 million in licenses revenue recognized	3,800	7,910	-52.0%	6,651	10,788	-38.3%
Between \$0.5 million and \$1.0 million in licenses revenue recognized	2,285	1,687	35.4%	4,246	6,642	-36.1%
Less than \$0.5 million in licenses revenue recognized	6,318	12,384	-49.0%	24,918	30,718	-18.9%
Total	<u>12,403</u>	<u>21,981</u>	-43.6%	<u>35,815</u>	<u>48,148</u>	-25.6%
<i>International:</i>						
More than \$1.0 million in licenses revenue recognized	0	0	n/a	0	1,394	-100.0%
Between \$0.5 million and \$1.0 million in licenses revenue recognized	1,740	502	246.6%	2,915	3,646	-20.0%
Less than \$0.5 million in licenses revenue recognized	7,410	7,149	3.7%	22,953	22,302	2.9%
Total	<u>\$ 9,150</u>	<u>\$ 7,651</u>	19.6%	<u>\$ 25,868</u>	<u>\$ 27,342</u>	-5.4%

Product licenses revenues decreased \$8.1 million and \$13.8 million for the three and nine months ended September 30, 2017, respectively, as compared to the same periods in the prior year. For the three months ended September 30, 2017 and 2016, product licenses transactions with more than \$0.5 million in recognized revenue represented 36.3% and 34.1%, respectively, of our product licenses revenues. For the nine months ended September 30, 2017, our top three product licenses transactions totaled \$4.5 million in recognized revenue, or 7.2% of total product licenses revenues, compared to \$6.6 million, or 8.7% of total product licenses revenues, for the nine months ended September 30, 2016.

Domestic product licenses revenues. Domestic product licenses revenues decreased \$9.6 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a decrease in the number and average deal size of transactions with less than \$0.5 million in recognized revenue and a decrease in the number and average deal size of transactions with more than \$1.0 million in recognized revenue, partially offset by an increase in the average deal size of transactions with recognized revenue between \$0.5 million and \$1.0 million.

Domestic product licenses revenues decreased \$12.3 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a decrease in the number and average deal size of transactions with less than \$0.5 million in recognized revenue, a decrease in the number and average deal size of transactions with more than \$1.0 million in recognized revenue, and a decrease in the number of transactions with recognized revenue between \$0.5 million and \$1.0 million.

International product licenses revenues. International product licenses revenues increased \$1.5 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to an increase in the number of transactions with recognized revenue between \$0.5 million and \$1.0 million.

International product licenses revenues decreased \$1.5 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a decrease in the number of transactions with more than \$0.5 million in recognized revenue.

Subscription services revenues. Subscription services revenues are derived primarily from our cloud services offerings that are recognized on a subscription basis over the service period of the contract. Subscription services revenues did not materially change for the three months ended September 30, 2017, as compared to the same period in the prior year. Subscription services revenues increased \$1.1 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to new subscription services customers, and an increase in the use of subscription services by existing customers.

Product support revenues. The following table sets forth product support revenues (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
Product Support Revenues:						
Domestic	\$ 43,082	\$ 43,781	-1.6%	\$ 130,356	\$ 128,486	1.5%
International	29,804	28,679	3.9%	83,786	83,922	-0.2%
Total product support revenues	<u>\$ 72,886</u>	<u>\$ 72,460</u>	0.6%	<u>\$ 214,142</u>	<u>\$ 212,408</u>	0.8%

Product support revenues are derived from providing technical software support and software updates and upgrades to customers. Product support revenues are recognized ratably over the term of the contract, which is generally one year. Product support revenues increased \$0.4 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.8 million favorable foreign currency exchange impact. Product support revenues increased \$1.7 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to new product and premium support contracts, partially offset by a \$0.7 million unfavorable foreign currency exchange impact. See “Impact of Foreign Currency Exchange Rate Fluctuations on Results of Operations” for further information on the foreign currency exchange impact on our results of operations for the three and nine months ended September 30, 2017.

Other services revenues. The following table sets forth other services revenues (in thousands) and related percentage changes in these revenues for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
Other Services Revenues:						
Consulting						
Domestic	\$ 9,550	\$ 8,324	14.7%	\$ 30,346	\$ 27,154	11.8%
International	11,095	9,345	18.7%	29,136	27,143	7.3%
Total consulting revenues	<u>20,645</u>	<u>17,669</u>	16.8%	<u>59,482</u>	<u>54,297</u>	9.5%
Education	2,403	2,496	-3.7%	7,248	7,083	2.3%
Total other services revenues	<u>\$ 23,048</u>	<u>\$ 20,165</u>	14.3%	<u>\$ 66,730</u>	<u>\$ 61,380</u>	8.7%

Consulting revenues. Consulting revenues are derived from helping customers plan and execute the deployment of our software. Consulting revenues increased \$3.0 million and \$5.2 million for the three and nine months ended September 30, 2017, respectively, as compared to the same periods in the prior year, primarily due to an increase in average bill rates.

Education revenues. Education revenues are derived from the education and training that we provide to our customers to enhance their ability to fully utilize the features and functionality of our software. These offerings include self-tutorials, custom course development, joint training with customers’ internal staff, and standard course offerings, with pricing dependent on the specific offering delivered. Education revenues did not materially change for the three months ended September 30, 2017, as compared to the same period in the prior year. Education revenues increased \$0.2 million for the nine months ended September 30, 2017, as compared to the same periods in the prior year, primarily due to an increase in overall contract values.

Costs and Expenses

Cost of revenues. The following table sets forth cost of revenues (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,			Nine Months Ended September 30,		
	2017	2016	% Change	2017	2016	% Change
Cost of Revenues:						
Product licenses and subscription services:						
Product licenses	\$ 1,763	\$ 2,370	-25.6%	\$ 5,182	\$ 6,828	-24.1%
Subscription services	3,592	3,219	11.6%	10,031	9,667	3.8%
Total product licenses and subscription services	5,355	5,589	-4.2%	15,213	16,495	-7.8%
Product support	4,218	3,959	6.5%	13,094	10,919	19.9%
Other services:						
Consulting	13,295	11,909	11.6%	38,579	38,309	0.7%
Education	1,521	1,478	2.9%	5,010	4,136	21.1%
Total other services	14,816	13,387	10.7%	43,589	42,445	2.7%
Total cost of revenues	\$ 24,389	\$ 22,935	6.3%	\$ 71,896	\$ 69,859	2.9%

Cost of product licenses revenues. Cost of product licenses revenues consists of amortization of capitalized software development costs, referral fees paid to channel partners, the costs of product manuals and media, and royalties paid to third-party software vendors. Capitalized software development costs are generally amortized over a useful life of three years.

Cost of product licenses revenues decreased \$0.6 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.5 million decrease in amortization of capitalized software development costs related to MicroStrategy 9.4, which became fully amortized in September 2016, and a \$0.2 million decrease in referral fees related to channel partners. Cost of product licenses revenues decreased \$1.6 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$1.4 million decrease in amortization of capitalized software development costs related to MicroStrategy 9.4, which became fully amortized in September 2016, and a \$0.3 million decrease in referral fees related to channel partners. We expect to amortize the remaining balance of MicroStrategy 10 related capitalized software development costs as of September 30, 2017 ratably over the remaining amortization period as follows:

	Capitalized Software Development Costs, Net, as of September 30, 2017 (in thousands)	Remaining Amortization Period (in months)
MicroStrategy 10	3,999	8
Total capitalized software development costs, net	\$ 3,999	

Cost of subscription services revenues. Cost of subscription services revenues consists of equipment, facility and other related support costs, and personnel and related overhead costs. Cost of subscription services revenues increased \$0.4 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.6 million increase in third-party hosting service provider fees. Subscription services headcount increased 2.0% to 50 at September 30, 2017 from 49 at September 30, 2016.

Cost of subscription services revenues increased \$0.4 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.9 million increase in third-party hosting service provider fees, partially offset by a \$0.5 million decrease in compensation and related costs.

Cost of product support revenues. Cost of product support revenues consists of product support personnel and related overhead costs. Cost of product support revenues increased \$0.3 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.2 million increase in compensation and related costs due to an increase in staffing levels. Product support headcount increased 0.6% to 163 at September 30, 2017 from 162 at September 30, 2016.

Cost of product support revenues increased \$2.2 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$2.2 million increase in compensation and related costs due to an increase in average

staffing levels, and a \$0.2 million increase in facility and other related support costs, partially offset by a \$0.3 million decrease in subcontractor costs.

Cost of consulting revenues. Cost of consulting revenues consists of personnel and related overhead costs. Cost of consulting revenues increased \$1.4 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$1.0 million increase in compensation and related costs and a \$0.5 million increase in travel and entertainment expenditures, partially offset by a \$0.3 million decrease in subcontractor costs. Consulting headcount decreased 2.4% to 447 at September 30, 2017 from 458 at September 30, 2016.

Cost of consulting revenues increased \$0.3 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.8 million increase in compensation and related costs and a \$0.7 million increase in travel and entertainment expenditures, partially offset by a \$1.3 million decrease in subcontractor costs.

Cost of education revenues. Cost of education revenues consists of personnel and related overhead costs. Cost of education revenues did not materially change for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.2 million increase in compensation and related costs due to an increase in staffing levels, being substantially offset by a \$0.2 million decrease in subcontractor costs. Education headcount increased 17.1% to 41 at September 30, 2017 from 35 at September 30, 2016.

Cost of education revenues increased \$0.9 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.6 million increase in compensation and related costs due to an increase in staffing levels, and a \$0.2 million increase in dues and subscriptions.

Sales and marketing expenses. Sales and marketing expenses consist of personnel costs, commissions, office facilities, travel, advertising, public relations programs, and promotional events, such as trade shows, seminars, and technical conferences. The following table sets forth sales and marketing expenses (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,		%	Nine Months Ended September 30,		%
	2017	2016		2017	2016	
Sales and marketing expenses	\$ 41,806	\$ 39,169	6.7%	\$ 122,635	\$ 113,448	8.1%

Sales and marketing expenses increased \$2.6 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$2.0 million increase in marketing and advertising costs, a \$0.7 million increase in compensation and related costs due to an increase in staffing levels, and a \$0.6 million increase in travel and entertainment expenditures, partially offset by a \$0.3 million decrease in recruiting costs, a \$0.2 million net decrease in share-based compensation expense related primarily to the departure of an executive employee in the first quarter of 2017, and a \$0.2 million decrease in facility and other related support costs. Sales and marketing headcount increased 11.2% to 635 at September 30, 2017 from 571 at September 30, 2016. We expect to increase our sales and marketing expenses in future periods as described in the “Overview” section above.

As a result of the grant of stock options under the 2013 Equity Plan, we expect that share-based compensation expense, a portion of which is recognized as sales and marketing expense, will continue to be a recurring expense. As of September 30, 2017, we estimate that approximately \$4.1 million of additional share-based compensation expense will be recognized as sales and marketing expense over a remaining weighted average period of 2.0 years. See “Overview” and Note 10, Share-based Compensation, to the Consolidated Financial Statements for further information regarding the 2013 Equity Plan and related share-based compensation expense.

Sales and marketing expenses increased \$9.2 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$4.5 million increase in compensation and related costs due to an increase in staffing levels, a \$3.5 million increase in marketing and advertising costs, a \$1.8 million increase in travel and entertainment expenditures, and a \$0.2 million increase in facility and other related support costs, partially offset by a \$0.8 million net decrease in share-based compensation expense related primarily to the departure of an executive employee in the first quarter of 2017, and a \$0.2 million decrease in consulting and advisory costs.

General and administrative expenses. General and administrative expenses consist of personnel and related overhead costs, and other costs of our executive, finance, human resources, information systems, and administrative departments, as well as third-party consulting, legal, and other professional fees. The following table sets forth general and administrative expenses (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
General and administrative expenses	\$ 19,082	\$ 19,703	-3.2%	\$ 58,921	\$ 63,014	-6.5%

General and administrative expenses decreased \$0.6 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.6 million decrease in severance costs associated with the streamlining of our finance organization, a \$0.3 million decrease in legal, consulting and other advisory costs, and a \$0.2 million decrease in bad debt expense, partially offset by a \$0.5 million net increase in share-based compensation expense. The \$0.5 million net increase in share-based compensation expense is primarily due to the grant of stock options under the 2013 Equity Plan and the inclusion, in the share-based compensation expense in the third quarter of 2016, of a reversal of \$0.2 million of previously recorded share-based compensation expense due to pre-vesting forfeitures of certain stock options. General and administrative headcount decreased 4.4% to 303 at September 30, 2017 from 317 at September 30, 2016.

As a result of the grant of stock options under the 2013 Equity Plan, we expect that share-based compensation expense, a significant portion of which is recognized as general and administrative expense, will continue to be a significant recurring expense. As of September 30, 2017, we estimate that approximately \$12.8 million of additional share-based compensation expense will be recognized as general and administrative expense over a remaining weighted average period of 2.0 years. See “Overview” and Note 10, Share-based Compensation, to the Consolidated Financial Statements for further information regarding the 2013 Equity Plan and related share-based compensation expense.

General and administrative expenses decreased \$4.1 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$3.4 million accrual taken in the first quarter of 2016, which was subsequently reversed, for potential future payments in connection with the departure of two executives during an executive management reorganization in January 2016, a \$1.6 million decrease in severance costs associated with the streamlining of our finance organization, a \$1.4 million decrease in legal, consulting and other advisory costs, a \$0.6 million decrease in compensation and related costs due to a decrease in staffing levels, and a \$0.3 million decrease in facility and other related support costs, partially offset by a \$2.4 million net increase in share-based compensation expense, a \$0.6 million increase in other aircraft-related operating costs, and a \$0.2 million increase in bad debt expense. The \$2.4 million net increase in share-based compensation expense is primarily due to the inclusion, in the share-based compensation expense in the first quarter of 2016, of a reversal of \$1.6 million of previously recorded share-based compensation expense due to pre-vesting forfeitures of certain stock options of two executives who departed during the 2016 executive management reorganization, and the grant of stock options under the 2013 Equity Plan.

Research and development expenses. Research and development expenses consist of the personnel costs for our software engineering personnel, depreciation of equipment, and other related costs. The following table summarizes research and development expenses and amortization of capitalized software development costs (in thousands) and related percentage changes for the periods indicated:

	Three Months Ended September 30,		% Change	Nine Months Ended September 30,		% Change
	2017	2016		2017	2016	
Research and development expenses	\$ 19,360	\$ 18,069	7.1%	\$ 57,347	\$ 54,804	4.6%
Amortization of capitalized software development costs included in cost of product licenses revenues	\$ 1,499	\$ 1,952	-23.2%	\$ 4,498	\$ 5,858	-23.2%

Research and development expenses increased \$1.3 million for the three months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.7 million increase in compensation and related costs due to an increase in staffing levels, a \$0.3 million increase in facility and other related support costs, and a \$0.2 million increase in consulting and advisory costs. Research and development headcount increased 2.1% to 539 at September 30, 2017 from 528 at September 30, 2016. We expect to increase our investment in our technology products and personnel in future periods as described in the “Overview” section above. We have significantly accelerated the pace of our software development efforts and increased the frequency of our software releases subsequent to the release of MicroStrategy 10, which has resulted in our software development costs in recent periods being expensed as incurred. We do not expect to capitalize material software development costs in the near term.

As a result of the grant of stock options under the 2013 Equity Plan, we expect that share-based compensation expense, a portion of which is recognized as research and development expense, will continue to be a recurring expense. As of September 30, 2017, we estimate that approximately \$ 3.9 million of additional share-based compensation expense will be recognized as research and development expense over a remaining weighted average period of 2.5 years. See “Overview” and Note 10, Share-based Compensation, to the Consolidated Financial Statements for further information regarding the 2013 Equity Plan and related share-based compensation expense.

Research and development expenses increased \$2.5 million for the nine months ended September 30, 2017, as compared to the same period in the prior year, primarily due to a \$0.7 million increase in facility and other related support costs, a \$0.7 million increase in compensation and related costs due to an increase in staffing levels, a \$0.6 million net increase in share-based compensation expense, a \$0.5 million increase in consulting and advisory costs, and a \$0.2 million increase in travel and entertainment expenditures, partially offset by a \$0.3 million decrease in recruiting costs. The \$0.6 million net increase in share-based compensation expense is primarily due to the inclusion, in the share-based compensation expense in the first quarter of 2016, of a reversal of \$0.4 million of previously recorded share-based compensation expense due to pre-vesting forfeitures of certain stock options, and the grant of stock options under the 2013 Equity Plan.

Other Expense, Net

Other expense, net is comprised primarily of foreign currency transaction gains and losses. For the three and nine months ended September 30, 2017, other expense, net, of \$1.9 million and \$6.4 million, respectively, were comprised primarily of foreign currency transaction net losses arising mainly from the revaluation of U.S. dollar-denominated cash balances held at international locations.

For the three and nine months ended September 30, 2016, other expense, net, of \$0.5 million and \$0.4 million, respectively, were comprised primarily of foreign currency transaction net losses arising mainly from the revaluation of outstanding balances denominated in the British Pound, which had declined in value as compared to the U.S. dollar and other currencies.

Provision for Income Taxes

We have estimated an annual effective tax rate for the full fiscal year 2017 and applied that rate to the income before income taxes in determining the provision for income taxes for the nine months ended September 30, 2017. We also record discrete items in each respective period as appropriate. The estimated effective tax rate is subject to fluctuation based on the level and mix of earnings and losses by tax jurisdiction, foreign tax rate differentials, and the relative impact of permanent book to tax differences (e.g., non-deductible expenses). Each quarter, a cumulative adjustment is recorded for any fluctuations in the estimated annual effective tax rate as compared to the prior quarter. As a result of these factors, and due to potential changes in our period-to-period results, fluctuations in our effective tax rate and respective tax provisions or benefits may occur.

For the nine months ended September 30, 2017, we recorded a provision for income taxes of \$8.8 million that resulted in an effective tax rate of 16.7%, as compared to a provision for income taxes of \$12.2 million that resulted in an effective tax rate of 16.9% for the nine months ended September 30, 2016. The change in the effective tax rate in 2017 is mainly due to the change in the expected proportion of U.S. versus foreign income and certain discrete tax benefits.

As of September 30, 2017, we had no U.S. federal NOL carryforwards and estimated that we had \$6.1 million of foreign NOL carryforwards. As of September 30, 2017, we estimated that we had foreign NOL carryforwards, other temporary differences and carryforwards, and credits that resulted in deferred tax assets, net of valuation allowances and deferred tax liabilities, of \$17.8 million. As of September 30, 2017, we had a valuation allowance of \$0.9 million related to certain foreign tax credit carryforwards that, in our present estimation, more likely than not will not be realized.

If we are unable to sustain profitability in future periods, we may be required to increase the valuation allowance against our deferred tax assets, which could result in a charge that would materially adversely affect net income in the period in which the charge is incurred. We will continue to regularly assess the realizability of deferred tax assets.

Deferred Revenue and Advance Payments

Deferred revenue and advance payments represent subscription services, product support, and other services fees that are collected in advance and recognized over the contract service period, and product licenses revenues relating to multiple-element software arrangements that include future deliverables.

The following table summarizes deferred revenue and advance payments (in thousand ds), as of:

	September 30, 2017	December 31, 2016	September 30, 2016
Current:			
Deferred product licenses revenue	\$ 10,771	\$ 13,023	\$ 11,401
Deferred subscription services revenue	15,583	18,303	12,820
Deferred product support revenue	141,496	162,781	140,593
Deferred other services revenue	8,743	10,015	9,226
Gross current deferred revenue and advance payments	176,593	204,122	174,040
Less: unpaid deferred revenue	(61,173)	(98,587)	(58,414)
Net current deferred revenue and advance payments	<u>\$ 115,420</u>	<u>\$ 105,535</u>	<u>\$ 115,626</u>
Non-current:			
Deferred product licenses revenue	\$ 7,320	\$ 9,118	\$ 9,918
Deferred subscription services revenue	406	1,307	1,594
Deferred product support revenue	5,790	5,751	6,394
Deferred other services revenue	990	690	763
Gross non-current deferred revenue and advance payments	14,506	16,866	18,669
Less: unpaid deferred revenue	(4,739)	(2,951)	(3,518)
Net non-current deferred revenue and advance payments	<u>\$ 9,767</u>	<u>\$ 13,915</u>	<u>\$ 15,151</u>
Total current and non-current:			
Deferred product licenses revenue	\$ 18,091	\$ 22,141	\$ 21,319
Deferred subscription services revenue	15,989	19,610	14,414
Deferred product support revenue	147,286	168,532	146,987
Deferred other services revenue	9,733	10,705	9,989
Gross current and non-current deferred revenue and advance payments	191,099	220,988	192,709
Less: unpaid deferred revenue	(65,912)	(101,538)	(61,932)
Net current and non-current deferred revenue and advance payments	<u>\$ 125,187</u>	<u>\$ 119,450</u>	<u>\$ 130,777</u>

We offset our accounts receivable and deferred revenue for any unpaid items included in deferred revenue and advance payments.

Total gross deferred revenue and advance payments decreased \$29.9 million as of September 30, 2017, as compared to December 31, 2016, primarily due to the recognition of previously deferred product support, product licenses, subscription services, and other services revenues. Total gross deferred revenue and advance payments decreased \$1.6 million as of September 30, 2017, as compared to September 30, 2016, primarily due to the recognition of previously deferred product licenses and other services revenues, partially offset by an increase in deferred revenue from new subscription services and product support contracts.

We expect to recognize approximately \$176.6 million of deferred revenue and advance payments over the next 12 months. However, the timing and ultimate recognition of our deferred revenue and advance payments depend on our performance of various service obligations, and the amount of deferred revenue and advance payments at any date should not be considered indicative of revenues for any succeeding period.

Liquidity and Capital Resources

Liquidity. Our principal sources of liquidity are cash and cash equivalents and on-going collection of our accounts receivable. Cash and cash equivalents include holdings in bank demand deposits, money market instruments, certificates of deposit, and U.S. Treasury securities. We also periodically invest a portion of our excess cash in short-term investments with stated maturity dates between three months and one year from the purchase date.

As of September 30, 2017 and December 31, 2016, the amount of cash and cash equivalents and short-term investments held by our U.S. entities were \$ 284.1 million and \$279.8 million , respectively, and by our non-U.S. entities were \$ 362.0 million and \$309.6 million, respectively. We earn a significant amount of our revenues outside the United States and, except for Subpart F deemed dividends, we intend to indefinitely reinvest undistributed earnings of all of our non-U.S. entities. We do not anticipate needing to repatriate the cash or cash equivalents held by non-U.S. entities to the United States to finance our U.S. operations. However, if we were to elect to repatriate these amounts, we would generate U.S. taxable income to the extent of our undistributed foreign earnings, which amounted to \$322.0 million at December 31, 2016. Although the tax impact of repatriating these earnings is difficult to determine and our effective tax rate could increase as a result of any such repatriation, we do not expect the maximum effective tax rate applicable to such repatriation to exceed the U.S. statutory rate of 35.0%, after considering applicable foreign tax credits.

We believe that existing cash and cash equivalents and short-term investments held by us and cash and cash equivalents anticipated to be generated by us are sufficient to meet working capital requirements, anticipated capital expenditures, and contractual obligations for at least the next 12 months.

The following table sets forth a summary of our cash flows (in thousands) and related percentage changes for the periods indicated:

	Nine Months Ended September 30,		%
	2017	2016	
Net cash provided by operating activities	\$ 49,283	\$ 94,036	-47.6%
Net cash used in investing activities	\$ (73,028)	\$ (20,988)	248.0%
Net cash provided by (used in) financing activities	\$ 1,660	\$ (1,540)	-207.8%

Net cash provided by operating activities. The primary source of our cash provided by operating activities is cash collections of our accounts receivable from customers following the sales and renewals of our software licenses, technical software support, software updates and upgrades, as well as consulting, education, and subscription services. Our primary uses of cash in operating activities are for personnel related expenditures for software development, personnel related expenditures for providing consulting, education, and subscription services, and for sales and marketing costs, general and administrative costs, and income taxes.

Net cash provided by operating activities was \$49.3 million and \$94.0 million for the nine months ended September 30, 2017 and 2016, respectively. The decrease in net cash provided by operating activities during the nine months ended September 30, 2017, as compared to the same period in the prior year, was due to a \$28.1 million decrease from changes in operating assets and liabilities, a \$15.9 million decrease in net income, and a \$0.8 million decrease from changes in non-cash items. Non-cash items generally consist of depreciation and amortization, bad debt expense, deferred taxes, share-based compensation expense, release of liabilities for unrecognized tax benefits, and, in prior periods only, excess tax benefits from share-based compensation arrangements.

Net cash used in investing activities. The changes in net cash used in investing activities relate to purchases and redemptions of short-term investments and expenditures on property and equipment. Net cash used in investing activities was \$73.0 million and \$21.0 million for the nine months ended September 30, 2017 and 2016, respectively. The increase in net cash used in investing activities for the nine months ended September 30, 2017, as compared to the same period in the prior year, was due to a \$118.7 million increase in purchases of short-term investments, and a \$0.7 million increase in purchases of property and equipment, offset by a \$67.4 million increase in proceeds from the redemption of short-term investments.

Net cash provided by (used in) financing activities. The changes in net cash provided by (used in) financing activities relate to the exercise of stock options under the 2013 Equity Plan, payments on capital leases, and, in prior periods only, excess tax benefits from share-based compensation arrangements. Net cash provided by financing activities was \$1.7 million for the nine months ended September 30, 2017. Net cash used in financing activities was \$1.5 million for the nine months ended September 30, 2016. The increase in net cash provided by financing activities for the nine months ended September 30, 2017, as compared to the same period in the prior year, was due to a \$3.7 million payment in 2016 to tax authorities for shares withheld for taxes related to the net exercise of a stock option under the 2013 Equity Plan, a \$0.5 million increase in proceeds from the exercise of stock options under the 2013 Equity Plan, and a \$0.1 million decrease in payments on capital lease and other financing arrangements, offset by a \$1.2 million decrease in excess tax benefits from share-based compensation arrangements.

Contractual obligations. As disclosed in Note 7, Commitments and Contingencies, to the Consolidated Financial Statements, we lease office space and computer and other equipment under operating lease agreements. We also lease certain computer and other equipment under capital lease agreements and license certain software under other financing arrangements. Under the lease agreements, in addition to base rent, we are generally responsible for certain taxes, utilities and maintenance costs, and other fees; and several leases include options for renewal or purchase. The following table shows future minimum rent payments under noncancellable operating and capital leases and agreements with initial terms of greater than one year, net of total future minimum rent payments to be received under noncancellable sublease agreements (in thousands), based on the expected due dates of the various installments as of September 30, 2017:

	Payments due by period ended September 30,				
	Total	2018	2019-2020	2021-2022	Thereafter
<i>Contractual Obligations:</i>					
Operating leases	\$ 75,601	\$ 24,157	\$ 38,313	\$ 8,602	\$ 4,529
Capital leases and other financing arrangements	1,106	1,100	6	0	0
Total	<u>\$ 76,707</u>	<u>\$ 25,257</u>	<u>\$ 38,319</u>	<u>\$ 8,602</u>	<u>\$ 4,529</u>

Unrecognized tax benefits. As of September 30, 2017, we had \$4.3 million of total gross unrecognized tax benefits, including penalty and interest accrued, recorded in other long-term liabilities. The timing of any payments that could result from these unrecognized tax benefits will depend on a number of factors, and accordingly the amount and period of any future payments cannot be estimated. We do not expect a significant tax payment related to these obligations during 2017.

Off-balance sheet arrangements. As of September 30, 2017, we did not have any off-balance sheet arrangements that had or were reasonably likely to have a current or future material impact on our financial condition, revenues or expenses, results of operations, liquidity, capital expenditures, or capital resources.

Recent Accounting Standards

In March 2016, the FASB issued ASU 2016-09, to simplify certain aspects of accounting for share-based payment transactions. Under ASU 2016-09, all excess tax benefits should be recognized as income tax expense or benefit in the income statement, regardless of whether the benefit reduces taxes payable in the current period. The excess tax benefits will be combined with other income tax cash flows within operating activities in the statement of cash flows. In addition, excess tax benefits or tax deficiencies will no longer be included in the calculation of assumed proceeds under the treasury stock method of computing diluted earnings per share. ASU 2016-09 also allows companies to make an accounting policy election to either estimate the number of awards expected to vest or to account for forfeitures as they occur, when accruing share-based compensation expense. Lastly, ASU 2016-09 permits employers to withhold up to the employee's maximum statutory tax rate in applicable jurisdictions and still qualify for the exception to liability classification. Cash paid by an employer when directly withholding shares for tax-withholding purposes should be classified as a financing activity in the statement of cash flows. We adopted this guidance on January 1, 2017 and have:

- (v) recognized excess tax benefits as part of the "Provision for income taxes" line item within income before income taxes in our Consolidated Statements of Operations, on a prospective basis.
- (vi) combined the impact of excess tax benefits with the "Deferred taxes" line item within operating activities in our Consolidated Statements of Cash Flows, on a prospective basis.
- (vii) excluded excess tax benefits or tax deficiencies in the calculation of our diluted earnings per share, on a prospective basis; and
- (viii) made an accounting policy election to account for forfeitures as they occur, on a modified retrospective basis, the impact of which is generally consistent with our previous method of estimating forfeitures.

No prior periods have been adjusted with respect to our adoption of ASU 2016-09. In addition, no cumulative-effect adjustments to retained earnings have been recorded as of the beginning of the period because there were no unrecognized excess tax benefits or tax deficiencies outstanding and no expected forfeitures applied to our share-based compensation expense as of the end of the preceding year. The remaining amendments under ASU 2016-09 did not have a material impact on our consolidated financial position, results of operations, and cash flows.

In November 2016, the FASB issued ASU 2016-18, to address the diversity in practice that currently exists regarding the classification and presentation of changes in restricted cash on the statement of cash flows. Under ASU 2016-18, entities will be required to include restricted cash and restricted cash equivalents with total cash and cash equivalents when reconciling the beginning and end of period amounts on the statement of cash flows. Entities will also be required to disclose information about the nature of

their restricted cash and restricted cash equivalents. Additionally, if cash, cash equivalents, restricted cash and restricted cash equivalents are presented in more than one line item in the statement of financial position, entities will be required to present a reconciliation, either on the face of the statement of cash flows or disclosed in the notes, of the totals in the statement of cash flows to the related line item captions in the statement of financial position. We adopted this guidance on January 1, 2017 and retrospectively applied the required updates to our Consolidated Statements of Cash Flows for all periods presented. We do not consider our restricted cash balances to be material for further disclosure or reconciliation. The adoption of this guidance did not impact our consolidated financial position, results of operations, and footnote disclosures.

In May 2014, the FASB issued ASU 2014-09, which supersedes nearly all existing revenue recognition guidance. The standard's core principle is that an entity should 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. The standard creates a five-step model to achieve its core principle: (i) identify the contract(s) with a customer; (ii) identify the performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the separate performance obligations in the contract; and (v) recognize revenue when (or as) the entity satisfies a performance obligation. In addition, entities must disclose sufficient information to enable users of financial statements to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. Qualitative and quantitative disclosures are required about: (i) the entity's contracts with customers; (ii) the significant judgments, and changes in judgments, made in applying the guidance to those contracts; and (iii) any assets recognized from the costs to obtain or fulfill a contract with a customer. In August 2015, the FASB issued ASU 2015-14, *Revenue from Contracts with Customers (Topic 606) – Deferral of the Effective Date*, which defers the effective date of ASU 2014-09 to interim and annual periods beginning January 1, 2018. The standard allows entities to apply the standard retrospectively to each prior reporting period presented ("full retrospective adoption") or retrospectively with the cumulative effect of initially applying the standard recognized at the date of initial application ("modified retrospective adoption"). We plan to adopt this guidance on January 1, 2018 and expect adoption using the full retrospective method, which is dependent on system readiness and our ability to timely compile necessary information related to prior periods. We have completed several key accounting assessments related to the standard and are in the process of finalizing our remaining assessments and quantifying prior year adjustments. We also continue to evaluate and implement changes to related processes, systems, and internal controls. Our evaluation has included determining whether the unit of account (i.e., performance obligations) will change as compared to current GAAP, as well as determining the standalone selling price of each performance obligation. Standalone selling prices under the new guidance may not be substantially different from our current methodologies of establishing VSOE of fair value on multiple element arrangements. We have identified certain arrangements where revenue may be recognized earlier, as compared to current GAAP, in particular term licenses and sales to resellers and OEMs who purchase our products for resale. We expect to recognize license revenue from term licenses upon delivery of the software, rather than over the term of the arrangement. For reseller and OEM deals, we expect to recognize revenue when we transfer control of the products to the reseller or OEM, less potential adjustments for returns or price protection, rather than waiting for the reseller or OEM to sell the products to an end user. Upon adoption of the new standard, we also expect to begin capitalizing certain commissions payable to our sales force and subsequently amortizing these capitalized costs on a straight-line basis over a three-year period. Further, we expect to no longer offset our receivable and deferred revenue balances for unpaid items included in deferred revenue and advance payments. We continue to evaluate the impact of this guidance and its subsequent amendments on our consolidated financial position, results of operations, and cash flows, and any assessments made, including the adoption method, are subject to change.

In February 2016, the FASB issued ASU 2016-02, which requires lease assets and lease liabilities be recognized for all leases, in addition to the disclosure of key information to enable users of financial statements to assess the amount, timing, and uncertainty of cash flows arising from an entity's leasing arrangements. ASU 2016-02 defines a lease as a contract, or part of a contract, that conveys both (i) the right to obtain economic benefits from and (ii) direct the use of an identified asset for a period of time in exchange for consideration. Under ASU 2016-02, leases are classified as either finance or operating leases. For finance leases, a lessee shall recognize in profit or loss the amortization of the lease asset and interest on the lease liability. For operating leases, a lessee shall recognize in profit or loss a single lease cost, calculated so that the remaining cost of the lease is allocated over the remaining lease term, generally on a straight-line basis. ASU 2016-02 requires the recognition and measurement of leases at the beginning of the earliest period presented using a modified retrospective approach and is effective for interim and annual periods beginning January 1, 2019. Early adoption is permitted. We are currently evaluating the impact of this guidance on our consolidated financial position, results of operations, and cash flows.

In October 2016, the FASB issued ASU 2016-16 to improve the accounting for income tax effects of intra-entity transfers of assets other than inventory. Under ASU 2016-16, the deferral of the income tax consequences of intra-entity transfers of assets other than inventory is eliminated. Entities will be required to recognize the income tax consequences of intra-entity transfers of assets other than inventory when the transfers occur. The standard requires a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption using a modified retrospective approach. ASU 2016-16 is effective for interim and annual periods beginning January 1, 2018. We do not expect the adoption of this guidance to have a material impact on our consolidated financial position, results of operations, and cash flows.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

The following discussion about our market risk exposures involves forward-looking statements. Actual results could differ materially from those projected in the forward-looking statements.

We are exposed to the impact of both interest rate changes and foreign currency fluctuations.

Interest Rate Risk. We face exposure to changes in interest rates primarily relating to our investments. We generally invest our excess cash in short-term, highly-rated, fixed-rate financial instruments. These fixed-rate instruments are subject to interest rate risk and may fall in value if interest rates increase. We do not hold or invest in these fixed-rate instruments for trading purposes or speculation. As of September 30, 2017, we held approximately \$259.2 million of investments in U.S. Treasury securities and certificates of deposit with stated maturity dates between three months and one year from the purchase date, and we intend to hold these investments until maturity.

Foreign Currency Risk. We conduct a significant portion of our business in currencies other than the U.S. dollar, the currency in which we report our Consolidated Financial Statements. International revenues accounted for 42.1% and 36.5% of our total revenues for the three months ended September 30, 2017 and 2016, respectively, and 39.9% and 38.6% of our total revenues for the nine months ended September 30, 2017 and 2016, respectively. We anticipate that international revenues will continue to account for a significant portion of our total revenues. The functional currency of each of our foreign subsidiaries is the local currency.

Assets and liabilities of our foreign subsidiaries are translated into U.S. dollars at exchange rates in effect as of the applicable balance sheet date and any resulting translation adjustments are included as an adjustment to stockholders' equity. Revenues and expenses generated from these subsidiaries are translated at average monthly exchange rates during the quarter in which the transactions occur. Gains and losses from transactions in local currencies are included in net income.

As a result of transacting in multiple currencies and reporting our financial statements in U.S. dollars, our operating results may be adversely impacted by currency exchange rate fluctuations in the future. The impact of foreign currency exchange rate fluctuations on current and comparable periods is described in "Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations."

We cannot predict the effect of exchange rate fluctuations upon our future results. We attempt to minimize our foreign currency risk by converting our excess foreign currency held in foreign jurisdictions to U.S. dollar-denominated cash and investment accounts.

As of September 30, 2017 and December 31, 2016, a 10% adverse change in foreign currency exchange rates versus the U.S. dollar would have decreased our aggregate reported cash and cash equivalents and short-term investments by 0.2% at each respective period end. The exposure to an adverse change in foreign currency rates as of September 30, 2017 remained unchanged, as compared to December 31, 2016, primarily due to a weakening of the U.S. dollar and an increase of cash balances in our non-U.S. dollar based bank accounts. If average exchange rates during the nine months ended September 30, 2017 had changed unfavorably by 10%, our revenues for the nine months ended September 30, 2017 would have decreased by 3.7%. During the nine months ended September 30, 2017, our revenues were lower by 0.3% as a result of a 0.6% unfavorable change in weighted average exchange rates, as compared to the same period in the prior year.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures. Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the period covered by this Quarterly Report. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our disclosure controls and procedures are designed to provide reasonable assurance of achieving their control objectives. Based on the evaluation of our disclosure controls and procedures as of the end of the period covered by this Quarterly Report, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Controls. During the third quarter of 2016, we began implementing a plan to transform our worldwide finance and accounting organization. Previously, our finance and accounting activities relating to each of the countries where we operate were decentralized, and conducted by personnel based within each respective country. The transformation resulted in the consolidation of our worldwide finance and accounting functions into three geographically based centers of excellence. As of the end of the second quarter of 2017, we had completed this transformation. While the nature and operation of our key transaction-level controls did not materially change as a result of the transformation, the personnel executing the controls and the locations where the controls are performed have changed. Additionally, during the second quarter of 2017, we implemented a new professional service automation system to track billable time used to invoice customers, as well as process internal business travel and entertainment expenses. The implementation of this new system did not change the underlying internal controls. We believe that we have maintained appropriate internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the fiscal quarter ended September 30, 2017, and that our internal control over financial reporting has not been materially affected by the finance and accounting transformation, and implementation of the new professional service automation system.

PART II - OTHER INFORMATION

Item 1. Legal Proceedings

In December 2011, DataTern, Inc. (“DataTern”) filed a complaint for patent infringement against the Company in the United States District Court for the District of Massachusetts (the “District Court”). The complaint alleged that the Company infringes U.S. Patent No. 6,101,502 (the “’502 Patent”), allegedly owned by DataTern, by making, selling, or offering for sale several of the Company’s products and services including MicroStrategy 9, MicroStrategy Intelligence Server, MicroStrategy Business Intelligence Platform, MicroStrategy Cloud Personal, and other MicroStrategy applications for creating or using data mining, dashboards, business analytics, data storage and warehousing, and web hosting support. The complaint accused the Company of willful infringement and sought an unspecified amount of damages, an award of attorneys’ fees, and preliminary and permanent injunctive relief. In light of a judgment in a separate action involving DataTern in another jurisdiction, in February 2013, MicroStrategy and DataTern filed motions for summary judgment of non-infringement and the District Court entered summary judgment against DataTern. In March 2013, DataTern filed a notice of appeal with the United States Court of Appeals for the Federal Circuit (the “Federal Circuit”). In December 2014, the Federal Circuit issued an opinion vacating the District Court’s summary judgment, stating that the claim construction on which the summary judgment was based was incorrect. In January 2015, the case was remanded to the District Court for further proceedings. A claim construction ruling was issued in February 2017. In August 2017, counsel for DataTern filed a motion to withdraw from the lawsuit. The District Court initially gave DataTern a deadline of September 18, 2017 to find replacement counsel, which was later extended to October 20, 2017. On October 20, 2017, the District Court dismissed the case for failure to prosecute when DataTern failed to identify substitute counsel. We have received indemnification requests from certain of our channel partners and customers who were sued by DataTern in the District Court in lawsuits alleging infringement of the ‘502 Patent. The proceedings against these channel partners and customers have been stayed pending the resolution of DataTern’s lawsuit against the Company. The outcome of these matters is not presently determinable.

We are also involved in various other legal proceedings arising in the normal course of business. Although the outcomes of these other legal proceedings are inherently difficult to predict, we do not expect the resolution of these other legal proceedings to have a material adverse effect on our financial position, results of operations, or cash flows.

Item 1A. Risk Factors

You should carefully consider the risks described below before making an investment decision. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our business operations.

If any of the following risks occurs, our business, financial condition, or results of operations could be materially adversely affected. In such case, the market price of our class A common stock could decline and you may lose all or part of your investment.

Our quarterly operating results, revenues, and expenses may fluctuate significantly, which could have an adverse effect on the market price of our stock

For many reasons, including those described below, our operating results, revenues, and expenses have varied in the past and may vary significantly in the future from quarter to quarter. These fluctuations could have an adverse effect on the market price of our class A common stock.

Fluctuations in Quarterly Operating Results. Our quarterly operating results may fluctuate, in part, as a result of:

- the size, timing, volume, and execution of significant orders and shipments;
- the mix of products and services ordered by customers, including product licenses and subscription offerings, which can affect the extent to which revenue is recognized immediately or over future quarterly periods;
- the timing of the release or delivery of new or enhanced offerings, which may affect the period in which we can recognize revenue;
- the timing of announcements of new offerings by us or our competitors;
- changes in our pricing policies or those of our competitors;
- market acceptance of new and enhanced versions of our products and services;
- the length of our sales cycles;
- seasonal or other buying patterns of our customers;

- changes in our operating expenses;
- planned major maintenance activities related to our corporate aircraft;
- the timing of research and development projects and the capitalization of software development costs;
- personnel changes;
- our use of channel partners;
- utilization of our consulting and education services, which can be affected by delays or deferrals of customer implementation of our software products;
- changes in foreign currency exchange rates;
- our profitability and expectations for future profitability and their effect on our deferred tax assets and net income for the period in which any adjustment to our net deferred tax asset valuation allowance may be made;
- increases or decreases in our liability for unrecognized tax benefits; and
- changes in customer decision making processes or customer budgets.

Limited Ability to Adjust Expenses. We base our operating expense budgets on expected revenue trends and strategic objectives. Many of our expenses, such as office leases and certain personnel costs, are relatively fixed. We may be unable to adjust spending quickly enough to offset any unexpected revenue shortfall. Accordingly, any shortfall in revenue may cause significant variation in operating results in any quarter. For example, if our revenues in the future are not sufficient to offset our operating expenses, or we are unable to adjust our operating expenses in a timely manner in response to any shortfall in anticipated revenue, we may incur operating losses.

Based on the above factors, we believe that quarter-to-quarter comparisons of our operating results are not a good indication of our future performance. It is possible that in one or more future quarters, our operating results may be below the expectations of public market analysts and investors. In that event, the market price of our class A common stock may fall.

The market price of our class A common stock has been and may continue to be volatile

The market price of our class A common stock historically has been volatile and may continue to be volatile. The market price of our class A common stock may fluctuate widely in response to various factors, some of which are beyond our control. These factors include, but are not limited to:

- quarterly variations in our results of operations or those of our competitors;
- announcements about our earnings that are not in line with analyst expectations, the likelihood of which may be enhanced because it is our policy not to give guidance relating to our anticipated financial performance in future periods;
- announcements by us or our competitors of acquisitions, dispositions, new offerings, significant contracts, commercial relationships, or capital commitments;
- the emergence of new sales channels in which we are unable to compete effectively;
- our ability to develop, market, and deliver new and enhanced offerings on a timely basis;
- commencement of, or our involvement in, litigation;
- any major change in our Board of Directors, management, or governing documents;
- changes in governmental regulations or in the status of our regulatory approvals;
- recommendations by securities analysts or changes in earnings estimates and our ability to meet those estimates;
- investor perception of our Company;
- announcements by our competitors of their earnings that are not in line with analyst expectations;
- the volume of shares of our class A common stock available for public sale;
- sales or purchases of stock by us or by our stockholders, and issuances of awards under our stock incentive plan;
- short sales, hedging, and other derivative transactions involving shares of our class A common stock; and
- general economic conditions and slow or negative growth of related markets.

In addition, the stock market in general, and the market for technology companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of companies in those markets. These broad market and industry factors may seriously harm the market price of our class A common stock, regardless of our actual operating performance.

We may not be able to sustain or increase profitability in the future

We generated net income for the nine months ended September 30, 2017; however, we may not be able to sustain or increase profitability on a quarterly or annual basis in the future. If our revenues are not sufficient to offset our operating expenses, or we are unable to adjust our operating expenses in a timely manner in response to any shortfall in anticipated revenue, our profitability may decrease, we may cease to be profitable, or we may incur operating losses. As a result, our business, results of operations, and financial condition may be materially adversely affected.

As of September 30, 2017, we had \$18.0 million of deferred tax assets, net of a \$0.9 million valuation allowance. If we are unable to sustain profitability in the future, we may be required to increase the valuation allowance against these deferred tax assets, which could result in a charge that would materially adversely affect net income in the period in which the charge is incurred.

Economic uncertainty and increased competition for our customers, particularly in the retail industry, could materially adversely affect our business and results of operations

The U.S. and other significant markets have experienced cyclical downturns and worldwide economic conditions remain uncertain. Economic uncertainty and associated macroeconomic conditions make it extremely difficult for our customers and us to accurately forecast and plan future business activities, and could cause our customers to slow spending on our products and services, which could delay and lengthen sales cycles. Furthermore, during uncertain economic times, our customers may face issues gaining timely access to sufficient credit, which could result in an impairment of their ability to make timely payments to us. If that were to occur, we may be required to increase our allowance for doubtful accounts and our results would be negatively impacted.

Furthermore, we have a significant number of customers in the retail industry, which has recently experienced intense competition and structural changes. A significant downturn or the intensification of competition in this industry may cause organizations to reduce their capital expenditures in general or specifically reduce their spending on information technology. In addition, customers in this industry may delay or cancel information technology projects or seek to lower their costs by renegotiating vendor contracts. Customers with excess information technology resources may choose to develop in-house software solutions rather than obtain those solutions from us. In recent years, consumers have increasingly migrated toward large e-commerce platforms and other online applications. As a result, the retail industry has experienced consolidation and other ownership changes. In the future, retailers may further consolidate, undergo restructurings or reorganizations, or realign their affiliations, any of which could decrease the number of competitors within the retail industry, reducing the number of potential customers for our offerings. Moreover, our competitors may respond to challenging market conditions by lowering prices and attempting to lure away our customers. We cannot predict the timing, strength, or duration of any economic slowdown or any subsequent recovery generally, or competitive and structural changes in the retail industry. If the conditions in the general economy and the markets in which we operate worsen from present levels, our business, financial condition, and results of operations could be materially adversely affected.

We may have exposure to greater than anticipated tax liabilities

We are subject to income taxes and non-income taxes in a variety of domestic and foreign jurisdictions. Our future income taxes could be materially adversely affected by earnings that are lower than anticipated in jurisdictions where we have lower statutory rates, earnings that are higher than anticipated in jurisdictions where we have higher statutory rates, changes in the valuation of our deferred tax assets and liabilities, changes in the amount of unrecognized tax benefits, or changes in tax laws, regulations, accounting principles, or interpretations thereof.

Further changes in the tax laws of foreign jurisdictions could arise, including as a result of the base erosion and profit shifting (“BEPS”) project undertaken by the Organisation for Economic Co-operation and Development (“OECD”). The OECD, which represents a coalition of member countries, has issued recommendations that, in some cases, make substantial changes to numerous long-standing tax positions and principles. These changes, many of which have been adopted or are under active consideration by OECD members and/or other countries, could increase tax uncertainty and may adversely affect our provision for income taxes. In addition, in the United States, proposals for broad reform of the existing corporate tax system are under evaluation by various legislative and administrative bodies and by the Trump administration, but the likelihood of enactment of any such proposals (whether in their current forms or with modifications) is unclear, and it is not possible to accurately determine their overall impact on our effective tax rate at this time.

Our determination of our tax liability is subject to review by applicable domestic and foreign tax authorities. Any adverse outcome of such reviews could have an adverse effect on our operating results and financial condition. The determination of our worldwide provision for income taxes and other tax liabilities requires significant judgment and, in the ordinary course of business, there are many transactions and calculations where the ultimate tax determination is uncertain. Moreover, as a multinational business, we have subsidiaries that engage in many intercompany transactions in a variety of tax jurisdictions where the ultimate tax determination is uncertain.

We also have contingent tax liabilities that, in management's judgment, are not probable of assertion. If such unasserted contingent liabilities were to be asserted, or become probable of assertion, we may be required to record significant expenses and liabilities in the period in which these liabilities are asserted or become probable of assertion.

As a result of these and other factors, the ultimate amount of tax obligations owed may differ from the amounts recorded in our financial statements and any such difference may materially affect our financial results in future periods in which we change our estimates of our tax obligations or in which the ultimate tax outcome is determined.

If the market for analytics products fails to grow as we expect or if businesses fail to adopt our offerings, our business, operating results, and financial condition could be materially adversely affected

Nearly all of our revenues to date have come from sales of analytics products and related technical support, consulting, and education services. We expect these sales to account for a large portion of our revenues for the foreseeable future. Although demand for analytics products has grown in recent years, the market for analytics offerings continues to evolve. Resistance from consumer and privacy groups to increased commercial collection and use of data on spending patterns and other personal behavior, governmental restrictions on the collection, use, and transfer of personal data, and other developments may impair the further growth of this market. We cannot be sure that this market will continue to grow or, even if it does grow, that businesses will adopt our solutions.

We have spent, and intend to keep spending, considerable resources to educate potential customers about analytics offerings in general and our offerings in particular. However, we cannot be sure that these expenditures will help any of our offerings achieve any additional market acceptance. If the market fails to grow or grows more slowly than we currently expect or businesses fail to adopt our offerings, our business, operating results, and financial condition could be materially adversely affected.

Our products face intense competition, which may lead to lower prices for our products and services, reduced gross margins, loss of market share, and reduced revenue

The analytics market is highly competitive and subject to rapidly changing technology paradigms. Within the analytics space, we compete with many different types of vendors, including (i) large software vendors, such as IBM® (Cognos®), SAP® (BO), Microsoft® (Power BI™), and Oracle® (OBIEE), that provide one or more products that directly compete with our products, (ii) open source analytics vendors, such as OpenText™ Analytics and Hitachi (Pentaho®), (iii) various other analytics software providers, such as Qlik™, Tableau Software®, TIBCO®, Information Builders®, and the SAS® Institute, (iv) other vendors offering cloud-based offerings, such as GoodData and Birst, and (v) companies with EIoT technologies or technologies categorized as user authentication products that are primarily focused on traditional forms of identity verification such as smart cards, tokens, and password managers. Our future success depends on the effectiveness with which we can differentiate and compete with these vendors and other potential competitors across analytics implementation projects of varying sizes. Failure to maintain adequate technology differentiation from these competitors could materially adversely affect our revenue from both existing and prospective customers.

Some of our competitors have longer operating histories and significantly greater financial, technical, and marketing resources than we do. As a result, they may be able to respond more quickly to new or emerging technologies and changes in customer requirements or devote greater resources to the development, promotion, sale, and marketing of their offerings than we can, such as offering certain analytics products free of charge when bundled with other software offerings. In addition, many of our competitors have strong relationships with current and potential customers, extensive industry and specialized business knowledge, as well as corresponding proprietary technologies that they can leverage, such as multidimensional databases and ERP repositories. As a result, they may be able to prevent us from penetrating new accounts or expanding within existing accounts.

Increased competition may lead to price cuts, reduced gross margins, and loss of market share. We may not be able to compete successfully against current and future competitors, and the failure to meet the competitive pressures we face may have a material adverse effect on our business, operating results, and financial condition.

Current and future competitors may also make strategic acquisitions or establish cooperative relationships among themselves or with others. By doing so, these competitors may increase their ability to meet the needs of our potential customers by their expanded offerings. Our current or prospective channel partners may establish cooperative relationships with our current or future competitors.

These relationships may limit our ability to sell our analytics offerings through specific distribution channels. Accordingly, new competitors or alliances among current and future competitors may emerge and rapidly gain significant market share. These developments could limit our ability to obtain revenues from new customers and to sustain software maintenance revenues from our installed customer base. In addition, basic office productivity software suites, such as Microsoft Office, could evolve to offer advanced analysis and reporting capabilities that may reduce the demand for our analytics offerings.

We depend on revenue from a single suite of products and related services as well as revenue from our installed customer base

Our MicroStrategy 10 platform and related services account for a substantial portion of our revenue. Because of this revenue concentration, our business could be harmed by a decline in demand for, or in the adoption or prices of, these products and related services as a result of, among other factors, any change in our pricing or packaging model, increased competition, maturation in the markets for these products, or other risks described in this Quarterly Report.

We also depend on our installed customer base for a substantial portion of our revenue. We have contracts with our license customers for ongoing support and maintenance, as well as contracts for cloud-based subscription services that provide recurring revenues to us. In addition, our installed customer base has historically generated additional new license and services revenues for us. If our existing customers cancel or fail to renew their service contracts or fail to purchase additional products or services, our revenue could decrease and our operating results could be materially adversely affected.

If we are unable to develop and release product enhancements and new offerings to respond to rapid technological change in a timely and cost-effective manner, our business, operating results, and financial condition could be materially adversely affected

The market for our offerings is characterized by rapid technological change, frequent new product introductions and enhancements, changing customer demands, and evolving industry standards. The introduction of offerings embodying new technologies can quickly make existing offerings obsolete and unmarketable. We believe that our future success depends largely on our ability to:

- continue to support a number of popular operating systems and databases;
- maintain and improve our current offerings;
- rapidly develop new offerings and product enhancements that achieve market acceptance;
- maintain technological competitiveness; and
- meet an expanding range of customer requirements.

Analytics applications are inherently complex, and it can take a long time and require significant research and development expenditures to develop and test new offerings and product enhancements. In addition, customers may delay their purchasing decisions because they anticipate that new or enhanced versions of our offerings will soon become available. We cannot be sure that we will succeed in developing, marketing, and delivering, on a timely and cost-effective basis, new or enhanced offerings that respond to technological change or new customer requirements, nor can we be sure that any new or enhanced offerings will achieve market acceptance. Moreover, even if we introduce a new offering, we may experience a decline in revenues of our existing offerings that is not fully matched by the new offering's revenue. For example, customers may delay making purchases of a new offering to permit them to make a more thorough evaluation of the offering, or until industry and marketplace reviews become widely available. Some customers may hesitate migrating to a new offering due to concerns regarding the complexity of migration and product infancy issues on performance. In addition, we may lose existing customers who choose a competitor's offering rather than migrate to our new offering. This could result in a temporary or permanent revenue shortfall and materially adversely affect our business.

A substantial customer shift in the deployment of MicroStrategy Analytics from a perpetual software license model to our cloud services model could affect the timing of revenue recognition and materially adversely affect our operating results

We offer our analytics platform in the form of a perpetual software license and a cloud-based subscription. The payment streams and revenue recognition timing for our perpetual software licenses are different from those for our cloud-based subscriptions. For perpetual software licenses, customers typically pay us a lump sum soon after entering into a software license agreement and revenue is typically recognized upon delivery of the software to the customer. For cloud-based subscriptions, customers typically make periodic payments over the subscription period and revenue is typically recognized ratably over the subscription period. As a result, if a substantial number of current or new customers shift to subscribing to our cloud services offerings instead of purchasing perpetual software licenses for MicroStrategy Analytics, the resulting change in payment terms and revenue recognition may materially adversely affect our operating results and cash flows for the reporting periods during which such a shift occurs.

Our investment in new business strategies and initiatives could disrupt the operations of our ongoing business and present risks that we have not adequately anticipated

We have invested, and in the future may invest, in new business strategies and initiatives. For example, in recent years we have introduced a number of innovative technologies designed to enable companies to capitalize on Big Data, mobile applications, cloud-based services, security, and Internet of Things trends in the marketplace. These endeavors may involve significant risks and uncertainties, including distraction of management from other business operations, the dedication of significant research and development, sales and marketing, and other resources to these new initiatives at the expense of our other business operations, generation of insufficient revenue to offset expenses associated with new initiatives, incompatibility of our new technologies with third-party platforms, inadequate return of capital, and other risks that we may not have adequately anticipated. Because new strategies and initiatives are inherently risky, these strategies and initiatives may not be successful and could materially adversely affect our financial condition and operating results.

Business disruptions, including interruptions, delays, or failures of our systems, third-party data center hosting facilities or other third-party services, could materially adversely affect our operating results or result in a material weakness in our internal controls that could adversely affect the market price of our stock

A significant portion of our research and development activities or certain other critical business operations are concentrated in facilities in Northern Virginia, China, and Poland. In addition, we serve our customers, and manage certain critical internal processes, using third-party data center hosting facilities located in the United States and England and other third-party services, including Amazon Web Services and other cloud services. We could experience a disruption or failure of our systems, or the third-party hosting facilities or other services that we use. Such disruptions or failures could include a natural disaster, fire, cyber-attack, act of terrorism, geopolitical conflict, or other catastrophic event, as well as power outages or telecommunications infrastructure outages, or a decision by one of our third-party service providers to close facilities that we use without adequate notice or to materially change the pricing or terms of their services, or other unanticipated problems with the third-party services that we use, including a failure to meet service standards.

We are a highly automated business and any such disruptions or failures could (i) result in the destruction or disruption of any of our critical business operations, controls or procedures, or information technology systems, (ii) severely affect our ability to conduct normal business operations, including delaying completion of sales and provision of services, (iii) result in a material weakness in our internal control over financial reporting, (iv) cause our customers to terminate their subscriptions, (v) result in our issuing credits to customers or paying penalties or fines, (vi) harm our reputation, (vii) adversely affect our attrition rates or our ability to attract new customers, or (viii) cause our offerings to be perceived as not being secure, any of which could materially adversely affect our future operating results.

We use channel partners and if we are unable to maintain successful relationships with them, our business, operating results, and financial condition could be materially adversely affected

In addition to our direct sales force, we use channel partners such as resellers, value-added resellers, system integrators, consulting firms, original equipment manufacturers, and technology partners to license and support our products. For the nine months ended September 30, 2017, transactions by channel partners for which we recognized revenues accounted for 24.5% of our total product licenses revenues. Our channel partners may offer customers the products and services of several different companies, including offerings that compete with ours. Because our channel partners generally do not have exclusive relationships with us, we cannot be certain that they will prioritize or devote adequate resources to selling our products. Moreover, divergence in strategy or contract defaults by any of these channel partners may materially adversely affect our ability to develop, market, sell, or support our offerings.

Although we believe that direct sales will continue to account for a majority of our product licenses revenues, we seek to maintain a significant level of sales activities through our channel partners. There can be no assurance that our channel partners will continue to cooperate with us. In addition, actions taken or not taken by such parties may materially adversely affect us. Our ability to achieve revenue growth in the future will depend in part on our ability to maintain successful relationships with our channel partners. If we are unable to maintain our relationships with these channel partners, our business, operating results, and financial condition could be materially adversely affected.

In addition, we rely on our channel partners to operate in accordance with the terms of their contractual agreements with us. For example, some of our agreements with our channel partners prescribe the terms and conditions pursuant to which they are authorized to resell or distribute our software and offer technical support and related services. We also typically require our channel partners to represent to us the details of product licenses transactions sold to end user customers. If our channel partners do not comply with their contractual obligations to us, our business, operating results, and financial condition may be materially adversely affected.

Our recognition of deferred revenue and advance payments is subject to future performance obligations and may not be representative of revenues for succeeding periods

Our gross current and non-current deferred revenue and advance payments totaled \$191.1 million as of September 30, 2017. We offset our accounts receivable and deferred revenue for any unpaid items, which totaled \$65.9 million, resulting in net current and non-current deferred revenue and advance payments of \$125.2 million as of September 30, 2017. The timing and ultimate recognition of our deferred revenue and advance payments depend on various factors, including our performance of various service obligations.

Because of the possibility of customer changes or delays in customer development or implementation schedules or budgets, and the need for us to satisfactorily perform product support and other services, deferred revenue and advance payments at any particular date may not be representative of actual revenue for any succeeding period.

Our international operations are complex and expose us to risks that could have a material adverse effect on our business, operating results, and financial condition

We receive a significant portion of our total revenues from international sales, and conduct our business activities in various foreign countries, including some emerging markets where we have limited experience, where the challenges of conducting our business can be significantly different from those we have faced in more developed markets, and where business practices may create internal control risks. International revenues accounted for 42.1% and 36.5% of our total revenues for the three months ended September 30, 2017 and 2016, respectively, and 39.9% and 38.6% of our total revenues for the nine months ended September 30, 2017 and 2016, respectively. Our international operations require significant management attention and financial resources.

There are certain risks inherent in our international business activities, including:

- fluctuations in foreign currency exchange rates;
- new, or changes in, regulatory requirements;
- tariffs, export and import restrictions, restrictions on foreign investments, sanctions, and other trade barriers or protection measures;
- costs of localizing offerings;
- lack of acceptance of localized offerings;
- difficulties in and costs of staffing, managing, and operating our international operations;
- tax issues, including restrictions on repatriating earnings;
- weaker intellectual property protection;
- economic weakness or currency related crises;
- the burden of complying with a wide variety of laws, including those relating to labor matters, consumer and data protection, privacy, network security, and encryption;
- generally longer payment cycles and greater difficulty in collecting accounts receivable;
- our ability to adapt to sales practices and customer requirements in different cultures;
- corporate espionage; and
- political instability and security risks in the countries where we are doing business.

We may face heightened risks in connection with our international operations as a result of the impending withdrawal of the United Kingdom from the European Union, commonly referred to as “Brexit.” The future effects of Brexit are uncertain and will depend on any agreements the United Kingdom makes to retain access to E.U. markets either during a transitional period or more permanently. Brexit could, among other outcomes, disrupt the free movement of goods, services and people between the United Kingdom and the European Union, and significantly disrupt trade between the United Kingdom and the European Union. In addition, Brexit could lead to legal uncertainty and potentially divergent national laws and regulations, including tax laws and regulations, as the United Kingdom determines which E.U. laws to replace or replicate. Disruptions to trade, weakening of economic conditions, economic and legal uncertainties, or changes in currency rates may adversely affect our business, financial condition, operating results and cash flows.

Various corporate tax reform bills and other proposals have been or are currently under consideration by Congress and the Trump administration. These proposals include, among other items, corporate income tax rate changes in varying, uncertain, or unspecified amounts, the modification or elimination of certain tax incentives, changes to the existing regime for taxing overseas earnings (including possible modifications to the current regime for repatriating such earnings), and measures to prevent BEPS. It is not clear whether, or to what extent, these proposals may be enacted. Although the overall impact that such proposals may have on our future effective tax rate is unclear at this time, significant changes to the U.S. taxation of our international income could have a material adverse effect on our operating results.

From time to time, we may undertake various potential intercompany transactions and legal entity restructurings that involve our international subsidiaries. We consider various factors in evaluating these potential transactions and restructurings, including the alignment of our corporate structure with our organizational objectives, the operational and tax efficiency of our corporate structure, and the long-term cash flows and cash needs of our business. Such transactions and restructurings could negatively impact our overall tax rate and result in additional tax liabilities.

In addition, compliance with foreign and U.S. laws and regulations that are applicable to our international operations is complex and may increase our cost of doing business in international jurisdictions, and our international operations could expose us to fines and penalties if we fail to comply with these regulations. These laws and regulations include anti-bribery laws, such as the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act, and local laws prohibiting corrupt payments to governmental officials. These laws and regulations also include import and export requirements and economic and trade sanctions administered by the Office of Foreign Assets Control and the U.S. Commerce Department based on U.S. foreign policy and national security goals against targeted foreign states, organizations, and individuals. Although we have implemented policies and procedures designed to help ensure compliance with these laws, there can be no assurance that our employees, partners, and other persons with whom we do business will not take actions in violation of our policies or these laws. Any violations of these laws could subject us to civil or criminal penalties, including substantial fines or prohibitions on our ability to offer our products and services to one or more countries, and could also materially damage our reputation and our brand.

These factors may have a material adverse effect on our future sales and, consequently, on our business, operating results, and financial condition.

We may lose sales, or sales may be delayed, due to the long sales and implementation cycles of certain of our products and services, which could reduce our revenues

To date, our customers have typically invested substantial time, money, and other resources, and involved many people in the decision to license our software products and purchase our related services. As a result, we may wait nine months or more after the first contact with a customer for that customer to place an order while it seeks internal approval for the purchase of our products or services. During this long sales cycle, events may occur that affect the size and/or timing of the order or even cause it to be canceled. For example, our competitors may introduce new offerings, or the customer's own budget and purchasing priorities may change.

Even after an order is placed, the time it takes to deploy our products and complete services engagements can vary widely. Implementing some of our offerings can take several months, depending on the customer's needs, and may begin only with a pilot program. It may be difficult to deploy our products if the customer has complicated deployment requirements, which typically involve integrating databases, hardware, and software from different vendors. If a customer hires a third party to deploy our products, we cannot be sure that our products will be deployed successfully.

Our results in any particular period may depend on the number and volume of large transactions in that period and these transactions may involve lengthier, more complex, and more unpredictable sales cycles than other transactions

As existing and potential customers seek to standardize on a single analytics vendor or require greater vendor capacity to meet their growing analytics needs, our business may experience larger transactions at the enterprise level and larger transactions may account for a greater proportion of our business. The presence or absence of one or more large transactions in a particular period may have a material positive or negative effect on our revenue and operating results for that period. For the nine months ended September 30, 2017 and 2016, our top three product licenses transactions with recognized revenue totaled \$4.5 million and \$6.6 million, respectively, or 7.2% and 8.7% of total product licenses revenues, respectively. These transactions represent significant business and financial decisions for our customers, require considerable effort on the part of customers to assess alternative products, and often require additional levels of management approval. In addition, large transactions are often more complex than smaller transactions. These factors generally lengthen the typical sales cycle and increase the risk that customers may postpone or delay purchasing decisions from one period to another subsequent or later period, or that customers will alter their purchasing requirements. We may also encounter greater competition and pricing pressure in larger transactions, and the sales effort and service delivery scope for larger transactions may require us to use additional resources to execute the transaction. These factors could result in lower than anticipated revenue and earnings for a particular period or in lower estimated revenue and earnings in future periods.

We face a variety of risks in doing business with U.S., foreign, state, and local governments and government agencies, including risks related to the procurement process, budget constraints and cycles, termination of contracts, and compliance with government contracting requirements

Our customers include the U.S. government and a number of state and local governments and government agencies. There are a variety of risks in doing business with government entities, including:

Procurement. Contracting with public sector customers is highly competitive and can be time-consuming and expensive, requiring us to incur significant up-front time and expense without any assurance that we will win a contract.

Budgetary Constraints and Cycles. Demand and payment for our products and services are impacted by public sector budgetary cycles and funding availability, with funding reductions or delays adversely impacting public sector demand for our products and services.

Termination of Contracts. Public sector customers often have contractual or other legal rights to terminate current contracts for convenience or due to a default. If a contract is terminated for convenience, which can occur if the customer's needs change, we may only be able to collect fees for products or services delivered prior to termination and settlement expenses. If a contract is terminated due to a default, we may not recover even those amounts, and we may be liable for excess costs incurred by the customer for procuring alternative products or services.

Compliance with Government Contracting Requirements. Government contractors are required to comply with a variety of complex laws, regulations, and contractual provisions relating to the formation, administration, or performance of government contracts that give public sector customers substantial rights and remedies, many of which are not typically found in commercial contracts. These may include rights with respect to price protection, the accuracy of information provided to the government, contractor compliance with socio-economic policies, and other terms that are particular to government contracts. Federal, state, and local governments and government agencies routinely investigate and audit contractors for compliance with these requirements. If, as a result of an audit or review, it is determined that we have failed to comply with these requirements, we may be subject to civil and criminal penalties and administrative sanctions, including termination of contracts, forfeiture of profits, cost associated with the triggering of price reduction clauses, fines, and suspensions or debarment from future government business, and we may suffer harm to our reputation.

Our customers also include a number of foreign governments and government agencies. Similar procurement, budgetary, contract, and audit risks also apply to our doing business with these entities. In addition, compliance with complex regulations and contracting provisions in a variety of jurisdictions can be expensive and consume significant management resources. In certain jurisdictions, our ability to win business may be constrained by political and other factors unrelated to our competitive position in the market. Each of these difficulties could materially adversely affect our business and results of operations.

We depend on technology licensed to us by third parties, and the loss of this technology could impair our software, delay implementation of our offerings, or force us to pay higher license fees

We license third-party technologies that are incorporated into or utilized by our existing offerings. There can be no assurance that the licenses for such third-party technologies will not be terminated or that we will be able to license third-party software for future offerings. In addition, we may be unable to renegotiate acceptable third-party license terms, or we may be subject to infringement liability if third-party software that we license is found to infringe intellectual property rights of others. Changes in or the loss of third-party licenses could lead to a material increase in our costs, or to our software offerings becoming inoperable or their performance being materially reduced. As a result, we may need to incur additional development costs to help ensure continued performance of our offerings, and we may experience a decreased demand for our offerings.

If we are unable to recruit or retain skilled personnel, or if we lose the services of our Chairman of the Board of Directors, President & Chief Executive Officer, our business, operating results, and financial condition could be materially adversely affected

Our future success depends on our continuing ability to attract, train, assimilate, and retain highly skilled personnel. Competition for these employees is intense, and competition may be amplified by evolving restrictions on immigration, travel, or availability of visas for skilled technology workers. We may not be able to retain our current key employees, or attract, train, assimilate, and retain other highly skilled personnel in the future. Our future success also depends in large part on the continued service of Michael J. Saylor, our Chairman of the Board of Directors, President & Chief Executive Officer. If we lose the services of Mr. Saylor, or if we are unable to attract, train, assimilate, and retain the highly skilled personnel we need, our business, operating results, and financial condition could be materially adversely affected.

The emergence of new industry standards may materially adversely affect the demand for our existing offerings

The emergence of new industry standards in related fields may materially adversely affect the demand for our existing offerings. This could happen if new web standards and technologies or new standards in the field of operating system support emerge that are incompatible with customer deployments of our software offerings. For example, if we are unable to adapt our software offerings on a timely basis to new standards in database access technology, the ability of our software offerings to access customer databases could be impaired.

The nature of our software offerings makes them particularly susceptible to undetected errors, bugs, or security vulnerabilities, which could cause problems with how the offerings perform and which could, in turn, reduce demand for our offerings, reduce our revenue, and lead to product liability claims against us

Software as complex as ours may contain undetected errors, bugs, or security vulnerabilities. Although we test our software offerings extensively, we have in the past discovered software errors, bugs, or security vulnerabilities in our offerings after their introduction. Despite testing by us and our current and potential customers, errors, bugs, or security vulnerabilities may be found in new offerings or releases after commercial shipments begin. This could result in lost revenue, damage to our reputation, or delays in market acceptance, which could have a material adverse effect on our business, operating results, and financial condition. We may also need to expend resources and capital to correct these defects.

Our agreements with customers typically contain provisions designed to limit our exposure to product liability, warranty, and other claims. It is possible, however, that these provisions may not be effective under the laws of certain domestic or international jurisdictions and we may be exposed to product liability, warranty, and other claims. A successful product liability claim against us could have a material adverse effect on our business, operating results, and financial condition.

Changes in laws or regulations relating to privacy or the collection, processing, disclosure, storage, or transmission of personal data, or any actual or perceived failure by us or our third-party service providers to comply with such laws and regulations or applicable privacy policies, could materially adversely affect our business

Aspects of our business, including our cloud services offerings and Usher, involve collecting, processing, disclosing, storing, and transmitting personal data, which are subject to certain privacy policies and certain federal, state, and foreign laws, regulations, and directives relating to privacy and data protection. The amount of customer and employee data that we store through our cloud services offerings, networks, and other systems, including personal data, is increasing. In addition, the types of data subject to protection as personal data in the European Union, the United States, and elsewhere have been expanding. In recent years, the collection and use of personal data by companies have come under increased regulatory and public scrutiny, especially in relation to the collection and processing of sensitive data, such as healthcare, financial services, and government data. For example, in the United States, protected health information is subject to the Health Insurance Portability and Accountability Act (“HIPAA”). HIPAA has been supplemented by the Health Information Technology for Economic and Clinical Health Act with the result of increased civil and criminal penalties for noncompliance. Entities performing certain functions that engage in creating, receiving, maintaining, or transmitting protected health information provided by covered entities and other business associates are directly subject to enforcement under HIPAA. Our access to protected health information through our cloud services offerings triggers obligations to comply with certain privacy rules and data security requirements under HIPAA.

Any systems failure or security breach that results in the release of, or unauthorized access to, personal data, or any failure or perceived failure by us or our third-party service providers to comply with applicable privacy policies or any applicable laws or regulations relating to privacy or data protection, could result in proceedings against us by domestic or foreign governmental entities or others. Such proceedings could result in the imposition of sanctions, fines, penalties, liabilities, and/or governmental orders requiring that we change our data practices, any of which could have a material adverse effect on our business, operating results, reputation, and financial condition.

Various federal, state, and foreign legislative, regulatory, or other governmental bodies may enact new or additional laws or regulations, or issue rulings that invalidate prior laws or regulations, concerning privacy, data storage, data protection, and cross-border transfer of data that could materially adversely impact our business. For example, in October 2015, the Court of Justice of the European Union issued a ruling that declared the U.S.-EU Safe Harbor Framework invalid. Following this ruling, U.S. and European authorities agreed to, and in July 2016 the European Commission formally adopted, a new mechanism for lawfully transferring personal data from the European Union to the United States, referred to as the “Privacy Shield.” In addition, in April 2016, the European Parliament and the Council of the European Union formally adopted a comprehensive general data protection regulation, which will take effect in May 2018. The new law governs data practices and privacy, and establishes new requirements regarding the handling of personal data. Furthermore, a new ePrivacy regulation, regulating electronic communications, is also slated to take effect in the European Union in 2018. Complying with these and other changing requirements could cause us or our customers to incur

substantial costs, require us to change our business practices, require us to take on more onerous obligations in our contracts, or limit our ability to provide certain products and services in certain jurisdictions, any of which could materially adversely affect our business and operating results. In addition, the Privacy Shield, as well as other mechanisms for lawfully transferring personal data from the European Union to the United States and certain other countries, is being challenged in European courts, which could lead to uncertainty about the legality of such transfers, or burdensome or inconsistent legal requirements. The Privacy Shield is also subject to annual review by the European Commission and the U.S. Department of Commerce beginning in September 2017, which could result in modifications to the Privacy Shield or its enforcement, or even its invalidation. In addition, we may be subject to a cybersecurity law that went into effect in China on June 1, 2017 that has uncertain but broad application and imposes a number of new privacy and data security obligations. New laws or regulations restricting or limiting the collection or use of mobile data could also reduce demand for certain of our services or require changes to our business practices, which could materially adversely affect our business and operating results.

If we or our third-party service providers experience a security breach and unauthorized parties obtain access to our customers', prospects', vendors', or channel partners' data, our data, or our cloud services offerings, networks, or other systems, our offerings may be perceived as not being secure, our reputation may be harmed, demand for our offerings may be reduced, our operations may be disrupted, we may incur significant legal and financial liabilities, and our business could be materially adversely affected

As part of our business, we process, store, and transmit our customers', prospects', vendors', and channel partners' information and data as well as our own, including in our cloud services offerings, networks, and other systems. There can be no assurance that any security measures that we or our third-party service providers have implemented will be effective against all current or future security threats. For example, security measures may be breached as a result of technological error, computer viruses, or third-party action, including intentional misconduct by computer hackers, physical break-ins, the actions of state actors, industrial espionage, fraudulent inducement of employees, customers, or channel partners to disclose sensitive information such as user names or passwords, and employee, customer, or channel partner error or malfeasance. High-profile security breaches at other companies have increased in recent years. A security breach could result in unauthorized access to or disclosure, modification, misuse, loss, or destruction of our customers', prospects', vendors', or channel partners' data, our data (including our proprietary information, intellectual property, or trade secrets), or our cloud services offerings, networks, or other systems. Because there are many different security breach techniques and such techniques continue to evolve, we may be unable to anticipate attempted security breaches and implement adequate preventative measures. Third parties may also conduct attacks designed to temporarily deny customers access to our cloud services. Any security breach or successful denial of service attack could result in a loss of customer confidence in the security of our offerings and damage to our brand, reduce the demand for our offerings, disrupt our normal business operations, require us to spend material resources to investigate or correct the breach, expose us to legal liabilities, including litigation, regulatory enforcement, and indemnity obligations, and materially adversely affect our revenue and operating results. These risks will increase as we continue to grow the number and scale of our cloud-based offerings, and process, store, and transmit increasingly large amounts of our customers', prospects', vendors', channel partners', and our own information and data, which may include proprietary or confidential data or personal or identifying information.

Our intellectual property is valuable, and any inability to protect it could reduce the value of our products, services, and brand

We rely on a combination of copyrights, patents, trademarks, trade secrets, confidentiality procedures, and contractual commitments to protect our intellectual property. Despite our efforts, these measures can only provide limited protection. Unauthorized third parties may try to copy or reverse engineer portions of our products or otherwise obtain and use our intellectual property. Any patents owned by us may be invalidated, circumvented, or challenged. Any of our pending or future patent applications, whether or not currently being challenged, may not be issued with the scope of the claims we seek, if at all. Moreover, amendments to and developing jurisprudence regarding U.S. patent law may affect our ability to protect our intellectual property and defend against claims of patent infringement. In addition, although we generally enter into confidentiality agreements with our employees, our former employees may seek employment with our business partners, customers, or competitors, and there can be no assurance that the confidential nature of our intellectual property will be maintained. Furthermore, the laws of some countries do not provide the same level of protection of our intellectual property as do the laws of the United States. If we cannot protect our intellectual property against unauthorized copying or use, we may not remain competitive.

Third parties may claim we infringe their intellectual property rights

We periodically receive notices from third parties claiming we are infringing their intellectual property rights, principally patent and trademark rights. We expect the number of such claims will increase as we continue to expand our offerings and branding, the number of offerings and level of competition in our industry segments grow, the functionality of offerings overlaps, and the volume of issued

patents, patent applications, and trademark registrations continues to increase. Responding to any infringement claim, regardless of its validity, could:

- be time-consuming, costly, and/or result in litigation;
- divert management's time and attention from developing our business;
- require us to pay monetary damages or enter into royalty and licensing agreements that we would not normally find acceptable;
- require us to stop selling certain of our offerings;
- require us to redesign certain of our offerings using alternative non-infringing technology or practices, which could require significant effort and expense;
- require us to rename certain of our offerings or entities; or
- require us to satisfy indemnification obligations to our customers and channel partners.

Additionally, while we monitor our use of third-party software, including open source software, we cannot assure you that our processes for controlling such use in our products will be effective. If we inadvertently embed certain types of open source software into one or more of our products, or if third-party software that we license is found to infringe intellectual property rights of others, we could subject ourselves to infringement liability and be required to re-engineer our products, discontinue the sale of our products if re-engineering could not be accomplished on a timely or cost-effective basis, or make available to certain third parties or generally available, in source code form, our proprietary code, any of which could materially adversely affect our business, operating results, and financial condition.

If a successful infringement claim is made against us and we fail to develop or license a substitute technology or brand name, as applicable, our business, results of operations, financial condition, or cash flows could be materially adversely affected.

For information regarding certain pending intellectual property litigation, see "Part II. Item 1. Legal Proceedings."

Pending or future litigation could have a material adverse effect on our results of operation and financial condition

In addition to intellectual property litigation, from time to time, we have been subject to other litigation. Regardless of the merits of any claims that may be brought against us, pending or future litigation could result in a diversion of management's attention and resources and we may be required to incur significant expenses defending against these claims. If we are unable to prevail in litigation, we could incur substantial liabilities. Where we can make a reasonable estimate of the liability relating to pending litigation and determine that it is probable, we record a related liability. As additional information becomes available, we assess the potential liability and revise estimates as appropriate. However, because of uncertainties relating to litigation, the amount of our estimates could be wrong.

Because of the rights of our two classes of common stock and because we are controlled by Michael J. Saylor, who beneficially owns the majority of our class B common stock, Mr. Saylor could transfer control of MicroStrategy to a third party without the approval of our Board of Directors or our other stockholders, prevent a third party from acquiring us, or limit your ability to influence corporate matters

We have two classes of common stock: class A common stock and class B common stock. Holders of our class A common stock generally have the same rights as holders of our class B common stock, except that holders of class A common stock have one vote per share while holders of class B common stock have ten votes per share. As of October 16, 2017, holders of our class B common stock owned 2,035,184 shares of class B common stock, or 68.4% of the total voting power. As of October 16, 2017, Mr. Saylor, our Chairman of the Board of Directors, President & Chief Executive Officer, beneficially owned 2,011,668 shares of class B common stock, or 67.6% of the total voting power. Accordingly, Mr. Saylor can control MicroStrategy through his ability to determine the outcome of elections of our directors, amend our certificate of incorporation and by-laws, and take other actions requiring the vote or consent of stockholders, including mergers, going-private transactions, and other extraordinary transactions and their terms.

Our certificate of incorporation allows holders of class B common stock to transfer shares of class B common stock, subject to the approval of stockholders holding a majority of the outstanding class B common stock. Mr. Saylor or a group of stockholders holding a majority of the outstanding class B common stock could, without the approval of our Board of Directors or our other stockholders, transfer voting control of MicroStrategy to a third party. Such a transfer of control could have a material adverse effect on our business, operating results, and financial condition. Mr. Saylor or a group of stockholders holding a majority of the outstanding class B common stock could also prevent a change of control of MicroStrategy, regardless of whether holders of class A common stock

might otherwise receive a premium for their shares over the then current market price. In addition, this concentrated control limits stockholders' ability to influence corporate matters and, as a result, we may take actions that our non-controlling stockholders do not view as beneficial or that conflict with their interests. As a result, the market price of our class A common stock could be materially adversely affected.

Our status as a “controlled company” could make our class A common stock less attractive to some investors or otherwise materially adversely affect our stock price

Because we qualify as a “controlled company” under the corporate governance rules for NASDAQ-listed companies, we are not required to have independent directors comprise a majority of our Board of Directors. Additionally, our Board of Directors is not required to have an independent compensation or nominating committee, or to have the independent directors exercise the nominating function. We are also not required to have the compensation of our executive officers be determined by a compensation committee of independent directors. In addition, we are not required to empower our Compensation Committee with the authority to engage the services of any compensation consultants, legal counsel, or other advisors, or to have the Compensation Committee assess the independence of compensation consultants, legal counsel, and other advisors that it engages.

In light of our status as a controlled company, our Board of Directors has determined not to establish an independent nominating committee or have its independent directors exercise the nominating function, and has elected instead to have the Board of Directors be directly responsible for nominating members of the Board. A majority of our Board of Directors is currently comprised of independent directors, and our Board of Directors has established a Compensation Committee comprised entirely of independent directors. The Compensation Committee determines the compensation of our Chief Executive Officer. However, our Board of Directors has authorized our Chief Executive Officer to determine the compensation of executive officers other than himself, rather than having such compensation determined by the Compensation Committee, except that certain executive officer compensation that is intended to qualify as performance-based compensation for purposes of Section 162(m) of the Internal Revenue Code is determined by the Compensation Committee pursuant to the requirements of Section 162(m). Awards under our 2013 Equity Plan are also approved by the Compensation Committee. Additionally, while our Compensation Committee is empowered with the authority to retain and terminate outside counsel, compensation consultants, and other experts or consultants, it is not required to assess their independence.

Although currently a majority of our Board of Directors is comprised of independent directors and the Compensation Committee is comprised entirely of independent directors, we may elect in the future not to have independent directors constitute a majority of the Board of Directors or the Compensation Committee, have our Chief Executive Officer's compensation determined by a compensation committee of independent directors, or have a compensation committee of the Board of Directors at all.

Accordingly, should the interests of our controlling stockholder differ from those of other stockholders, the other stockholders may not have the same protections that are afforded to stockholders of companies that are required to follow all of the corporate governance rules for NASDAQ-listed companies. Our status as a controlled company could make our class A common stock less attractive to some investors or otherwise materially adversely affect our stock price.

Revenue recognition accounting pronouncements may materially adversely affect our reported results of operations

We continuously review our compliance with all new and existing revenue recognition accounting pronouncements. In May 2014, the FASB issued Accounting Standards Update No. 2014-09, *Revenue from Contracts with Customers (Topic 606)* (“ASU 2014-09”), which supersedes nearly all existing revenue recognition guidance. See Note 2, Recent Accounting Standards, to the Consolidated Financial Statements in “Part I. Item 1. Financial Statements” of this Quarterly Report for further information regarding ASU 2014-09. We continue to evaluate the impact of this guidance and its subsequent amendments on our consolidated financial position, results of operations, and cash flows. Depending on the outcome of these ongoing reviews and the potential issuance of further accounting pronouncements, implementation guidelines, and interpretations, we may be required to modify our reported results, revenue recognition policies, or business practices, which could materially adversely affect our results of operations.

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

During the three months ended September 30, 2017, we did not repurchase any equity securities registered by us pursuant to Section 12 of the Exchange Act. See Note 8, Treasury Stock, to the Consolidated Financial Statements in “Part I. Item 1. Financial Statements” for further information regarding our share repurchase plan.

Item 5. Other Information

On October 26, 2017, we issued a press release announcing the Company's financial results for the quarter ended September 30, 2017. A copy of this press release is attached as Exhibit 99.1 to this Quarterly Report on Form 10-Q. The information in this Item 5 (including Exhibit 99.1) shall not be deemed "filed" for purposes of Section 18 of the Exchange Act or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 6. Exhibits

We hereby file as part of this Quarterly Report on Form 10-Q the exhibits listed in the Index to Exhibits.

All other items not included in this Quarterly Report on Form 10-Q are omitted because they are not applicable or the answers thereto are "none."

INDEX TO EXHIBITS

Exhibit Number	Description
3.1	<u>Second Restated Certificate of Incorporation of the registrant (incorporated herein by reference to Exhibit 3.1 to the registrant's Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2003 (File No. 000-24435)).</u>
3.2	<u>Amended and Restated By-Laws of the registrant (incorporated herein by reference to Exhibit 3.1 to the registrant's Current Report on Form 8-K filed with the SEC on January 30, 2015 (File No. 000-24435)).</u>
4.1	<u>Form of Certificate of Class A Common Stock of the registrant (incorporated herein by reference to Exhibit 4.1 to the registrant's Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2003 (File No. 000-24435)).</u>
31.1	<u>Certification pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Chairman of the Board of Directors, President & Chief Executive Officer.</u>
31.2	<u>Certification pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Senior Executive Vice President & Chief Financial Officer.</u>
32.1	<u>Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
99.1	<u>Press release, dated October 26, 2017, regarding the Company's financial results for the quarter ended September 30, 2017.</u>
101.INS	XBRL Instance Document.
101.SCH	XBRL Taxonomy Extension Schema.
101.CAL	XBRL Taxonomy Extension Calculation Linkbase.
101.DEF	XBRL Taxonomy Extension Definition Linkbase.
101.LAB	XBRL Taxonomy Extension Label Linkbase.
101.PRE	XBRL Taxonomy Extension Presentation Linkbase.

SIGNATURES

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

MICROSTRATEGY INCORPORATED

By: /s/ Michael J. Saylor

Michael J. Saylor
Chairman of the Board of Directors,
President & Chief Executive Officer

By: /s/ Phong Le

Phong Le
Senior Executive Vice President &
Chief Financial Officer

Date: October 26, 2017

CERTIFICATION

I, Michael J. Saylor, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of MicroStrategy Incorporated;
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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an Annual Report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying 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 the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: October 26, 2017

/s/ Michael J. Saylor

Michael J. Saylor
Chairman of the Board of Directors,
President & Chief Executive Officer

CERTIFICATION

I, Phong Le, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of MicroStrategy Incorporated;
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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an Annual Report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying 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 the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: October 26, 2017

/s/ Phong Le

Phong Le
Senior Executive Vice President &
Chief Financial 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 on Form 10-Q of MicroStrategy Incorporated (the "Company") for the quarter ended September 30, 2017, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, the Chief Executive Officer of the Company and the Chief Financial Officer of the Company, each hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to his knowledge on the date hereof:

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

Dated: October 26, 2017

/s/ Michael J. Saylor

Michael J. Saylor
Chairman of the Board of Directors,
President & Chief Executive Officer

Dated: October 26, 2017

/s/ Phong Le

Phong Le
Senior Executive Vice President &
Chief Financial Officer

Contact:

MicroStrategy Incorporated
Investor Relations
ir@microstrategy.com
(703) 848-8600

MicroStrategy Announces Third Quarter 2017 Financial Results

TYSONS CORNER, Va., October 26, 2017 - MicroStrategy[®] Incorporated (Nasdaq: MSTR), a leading worldwide provider of enterprise analytics and mobility software, today announced financial results for the three-month period ended September 30, 2017 (the third quarter of its 2017 fiscal year).

Third quarter 2017 revenues were \$125.2 million versus \$129.9 million for the third quarter of 2016, a 3.6% decrease. Product licenses and subscription services revenues for the third quarter of 2017 were \$29.3 million versus \$37.3 million for the third quarter of 2016, a 21.4% decrease. Product support revenues for the third quarter of 2017 were \$72.9 million versus \$72.5 million for the third quarter of 2016, a 0.6% increase. Other services revenues for the third quarter of 2017 were \$23.0 million versus \$20.2 million for the third quarter of 2016, a 14.3% increase. Foreign currency effects had a favorable impact on revenues for the third quarter of 2017.

Operating expenses for the third quarter of 2017 were \$80.2 million versus \$77.0 million for the third quarter of 2016, a 4.3% increase. MicroStrategy did not capitalize any software development costs during the third quarter of 2017 or 2016.

Income from operations for the third quarter of 2017 was \$20.6 million versus \$30.0 million for the third quarter of 2016. Net income for the third quarter of 2017 was \$17.9 million, or \$1.56 per share on a diluted basis, as compared to net income of \$26.6 million, or \$2.31 per share on a diluted basis, for the third quarter of 2016.

Non-GAAP income from operations, which excludes share-based compensation expense and restructuring costs, was \$24.2 million for the third quarter of 2017 versus \$33.4 million for the third quarter of 2016. The tables at the end of this press release include a reconciliation of income from operations to non-GAAP income from operations for the three months ended September 30, 2017 and 2016. An explanation of this non-GAAP measure is also included under the heading “Non-GAAP Financial Measure” below.

As of September 30, 2017, MicroStrategy had cash and cash equivalents and short-term investments of \$646.1 million, as compared to \$589.4 million as of December 31, 2016, an increase of \$56.7 million. As of September 30, 2017, MicroStrategy had 9.4 million shares of class A common stock and 2.0 million shares of class B common stock outstanding.

Conference Call

MicroStrategy will be discussing its third quarter 2017 financial results on a conference call today beginning at approximately 5:00 p.m. EDT. To access the conference call, dial (844) 824-7425 (domestically) or (716) 220-9429 (internationally) and use conference ID 89717346. A live webcast and replay of the conference call will be available under the “Events” section on MicroStrategy’s investor relations website at <http://ir.microstrategy.com/events.cfm>. The replay will be available beginning approximately two hours after the call concludes until November 2, 2017 at (855) 859-2056 (domestically) or (404) 537-3406 (internationally) using the passcode 89717346. An archived webcast will also be available under the “Events” section on MicroStrategy’s investor relations website at <http://ir.microstrategy.com/events.cfm>.

MicroStrategy Delivered Analytics for Everyone with MicroStrategy 10.9™

In October 2017, MicroStrategy announced the general availability of MicroStrategy 10.9, the newest feature release to the company’s MicroStrategy 10™ platform. This feature release introduced Dossier™, a new storybook experience for everyone across the enterprise that makes it easy to consume, share, and collaborate around analytics. To learn more about the new features in MicroStrategy 10.9, visit our [What’s New in MicroStrategy](#) page.

“MicroStrategy 10.9 represents the biggest leap forward since our MicroStrategy 10 platform launch and underscores our vision of delivering ‘Intelligence Everywhere,’” said Tim Lang, Senior Executive Vice President and Chief Technology Officer, MicroStrategy Incorporated. “We believe collaborative analytics accelerates the velocity of decision making. That’s why we’re introducing Dossier, an easier and faster method of consuming analytics that we believe end users are going to love. MicroStrategy 10.9 empowers users to do more with their analytics regardless of their technical skill or role.”

Dossier Delivers New Storybook Experience Around Analytics

MicroStrategy 10.9 delivers Dossier, an interactive book of business which combines relevant analytics into a single place, organized into chapters and pages. The new streamlined interface goes beyond dashboards and brings data together in a format that all users recognize and understand. The new consumer-oriented and browser-based interface offers end users a modern and interactive means to explore data. Dossier makes it easy to navigate and share reports and visualizations that matter to users.

“Assisting customers in improving their businesses through media-centric analytics insights is a top objective at Imagine, and MicroStrategy 10.9 is instrumental in helping us achieve this goal,” said Adam Gotlieb, Director of Product Management for Global Traffic, Imagine Communications. “Dossier introduces a new streamlined interface that goes beyond dashboards and brings key data into a format that users can understand and use to make better, actionable decisions and identify new opportunities.”

Collaborative Analytics Turbocharges Decision Making

Version 10.9 enables users to collaborate via discussion threads and real-time comments within the Dossier interface. Anyone who has access to a dossier through the MicroStrategy Library™ can ask questions, highlight trends, and share their current filter state with others. Users who are tagged in a comment can receive real-time notifications via email, browser banners, page and library alerts, or push notifications.

MicroStrategy Library Helps Users Quickly and Easily Find Content and Answers

The 10.9 release delivers the MicroStrategy Library, a personalized portal for all users to access their BI content and dossiers. End users can log in to the MicroStrategy Library to find a list of all dossiers to which he or she has subscribed or has access. Each dossier in the library is represented by a customized thumbnail image, making it easy to visually identify content. Additionally, powerful search options are available for users to find content quickly. New notifications and comments made to the user will show up clearly as an alert, so the user doesn’t miss an update. Regardless of what browser or mobile device a user is on, the MicroStrategy Library is responsive in design and can automatically resize as needed.

Visual-based Filtering Accelerates Data Exploration

Dossier delivers a completely revamped approach to filtering data. Users can explore their data with a clean, simple interface and multiple filter types, including visual filters, advanced qualification filters, and in-canvas selectors. With visual filters, users can now embed any MicroStrategy visualization into the filter panel of a dossier, providing a visual and intuitive way to filter information without taking up valuable screen real estate.

Redesigned Data Discovery & Dossier Authoring Facilitate Faster Access to Data and Insights

MicroStrategy 10.9 makes it easier for users to access, analyze, and operationalize their data. MicroStrategy 10.9 provides business analysts with more connectors to data sources, easier data preparation, visual analytics and guided advanced analytics. Analysts can author once and deploy on multiple devices, without worrying about the target device.

Dossier and Document Certification Maintain Effective Data Governance

A common need for organizations that have invested in self-service strategies is the ability to ensure that everyone is able to differentiate content that is tied to certified versus untrustworthy data. With MicroStrategy 10.9, analysts and data stewards can watermark content with a 'certified' stamp. This step offers an easy way to implement governance across a self-service deployment and makes it clear for business users which content is tied to trusted data sources.

New Connectivity, Including Enhanced Out-of-the-box Connectors, to Diverse Types of Data

MicroStrategy 10.9 amplifies existing investments by keeping up with the latest certifications and providing instant access to nearly any type of data with out-of-the-box connectors to popular data sources, including personal spreadsheets, enterprise data warehouses, text files, cloud sources, and big data systems. With a clean simple interface, analysts can sort through 80+ data sources to quickly find the source they need. Version 10.9 delivers live data access for Hadoop Gateway, allowing end users to get the latest information from HDFS.

In addition, MicroStrategy 10.9 delivers an SDK to build out new out-of-the-box connectors that help analysts visualize text and semi-structured data such as Solr, Box, One Drive, Elasticsearch and many others. These new connectors allow analysts and citizen data scientists to run queries against semi-structured data, like log files and text scripts. Data is available to end users in tabular format and can be readily used to build reports or dossiers. New connectors built using the Data Connector API are regularly available and can be downloaded by visiting the [MicroStrategy Community](#).

Greater Flexibility to Create Custom MDX Queries for Advanced Financial Reporting

MicroStrategy 10.9 enables business users and analysts to visualize and interact with multi-level or ragged hierarchy reports against MDX sources, and delivers enhancements with dynamic filtering, persisted sort order, efficiency improvements, and support for derived attributes and metrics. Business users can apply mathematical and other transformational functions, and create derived elements within hierarchy reports using more complex formulas and calculations.

New Embedding APIs Easily Integrate Dossiers into Websites, Blogs and Portals

Offering a vast array of APIs, MicroStrategy 10 is an open platform that works with larger technology ecosystems and offers easy ways to extend its capabilities. With MicroStrategy 10.9's new embedding APIs, dossiers can be easily embedded into third-party applications with the ability to interact with MicroStrategy content and associated functionality. Users can slice and dice the data, navigate to different pages and chapters in the dossier, apply filters, and interact and analyze the data within the application itself. In addition, single sign-on or guest embedding can be enabled, so the user can interact with the dossier without having to log in within the third-party application.

"After testing MicroStrategy 10.9 as an early adopter, we are excited about the new set of APIs in the release that will make embedding and integration of MicroStrategy capabilities with applications of our choice easier," said Praphul Kumar, Senior Director of Product Management, Genesys. "As we create the world's most powerful, personal and intelligent customer experiences, MicroStrategy helps us to democratize those experiences through their rich set of APIs. We use MicroStrategy APIs to embed real-time and historical information right into the hands of contact center agents and supervisors so they can view and analyze that information in any application. MicroStrategy is the most open platform in the market, and we are excited to build more data-driven client applications with the new APIs."

Upgrades to MicroStrategy on AWS Strengthen Analytics in the Cloud

MicroStrategy on AWS allows organizations to deploy and manage enterprise analytics environments through the provisioning console. MicroStrategy 10.9 adds significant enhancements to its cloud offering, including single-click hotfix upgrades and the ability to deploy MicroStrategy into existing Virtual Private Cloud (VPC) accounts. New deployments will be automatically launched in the latest R4 instances that are optimized to require less memory. MicroStrategy customers can deploy MicroStrategy on AWS in data centers in eight different locations: Northern Virginia, Ohio, Oregon, Ireland, Frankfurt, London, Sydney, and Tokyo. The MicroStrategy on AWS provisioning tool is also available in nine different languages: English, French, Italian, Portuguese, Spanish, Dutch, Japanese, Korean, and Chinese.

The latest release also introduces various additional enhancements, including:

- Responsive design that makes it easier than ever to build and deploy analytics across different device types and screen sizes;
- New and improved data connectors that allow organizations to access datasets across different projects in a MicroStrategy deployment. Version 10.9 also certifies the latest data sources, including Maria Database 10.x, Apache Hive 2.x, Spark SQL 2.0, and MapR 5.2, and delivers improvements to data connectors for Presto, Snowflake, and Amazon Redshift; and
- Out-of-the-box connectors for both Solr and Elasticsearch.

Release of MicroStrategy 10.4™ Hotfix 5

Alongside the MicroStrategy 10.9 feature release, MicroStrategy 10.4 Hotfix 5 was made generally available to customers. This hotfix improves overall product stability and includes over 200 customer-reported enhancements and fixes across the platform.

Furthermore, this latest update to the MicroStrategy platform release provides driver and feature parity for relational and big data gateways with the latest MicroStrategy feature release (10.9). This enables access to brand-new data sources and provides optimized connectors for additional data sources — allowing customers to expand and enhance their existing applications. The latest hotfix (10.4.5) is also available for MicroStrategy on AWS.

MicroStrategy customers can apply MicroStrategy 10.9 or 10.4.5 to their analytics environments by downloading the release from the [MicroStrategy download site](#).

Global Symposium Series Unveiled MicroStrategy 10.9 and Dossier

In October 2017, MicroStrategy announced the locations for its 29 Symposium Series events being held in October and November. Each one-day event, taking place in cities across North America, Europe, Latin America, the Middle East and Asia, highlights the latest innovations and feature enhancements in MicroStrategy 10.9.

“We are thrilled that MicroStrategy 10 was recently named a market leader in ‘The Forrester Wave: Enterprise BI Platforms With Majority On-Premises Deployments, Q3 2017,’” said Mark Gambill, CMO, MicroStrategy Incorporated. “However, we’re not resting on our laurels. We continue to innovate and bring exciting new features to market, and will be showcasing MicroStrategy 10.9 and Dossier at our global symposia. We invite everyone to join us at these events where communities of data enthusiasts around the world will learn the latest in enterprise analytics and mobility, including customer success stories, new education and service offerings, and exciting new features they can leverage to accelerate their decision making.”

Each symposium kicks off with an executive keynote and live demonstrations featuring MicroStrategy for machine learning and voice-driven analytics with Alexa. IT and business users have numerous opportunities to network, attend workshops, and learn about MicroStrategy 10 applications from real-world customers. Some of the customers featured at the Symposium Series include AllianceBernstein, Bank Rakyat, Falken Tires, and PF Chang’s.

Attendees can choose from more than a dozen breakout sessions and hands-on workshops, and have the opportunity to gain firsthand experience with Dossier and MicroStrategy Desktop™, our free enterprise data discovery product. In addition to trying MicroStrategy 10.9’s new features for the first time, workshop attendees can also spin up their

own dedicated cloud environments with MicroStrategy on AWS and learn how to deploy a secure, collaborative analytics environment without any hardware or setup costs of their own.

Independent Research Firm Named MicroStrategy a Leader in Enterprise BI Platforms Report

In September 2017, MicroStrategy announced that Forrester Research, Inc. cited MicroStrategy as a leader in “The Forrester Wave: Enterprise BI Platforms With Majority On-Premises Deployments, Q3 2017” report. From a pool of 15 enterprise BI platform providers offering on-premise solutions, MicroStrategy was evaluated according to a comprehensive set of 22 evaluation criteria grouped into three categories: current offering, strategy, and market presence. Specifically, MicroStrategy received maximum scores in the focus on BI, full BI stack, cross-product integration, text mining, and upgrades criteria. To learn more about MicroStrategy’s ratings, download a copy of The Forrester Wave report [here](#).

According to the report, “MicroStrategy continues to address all BI use cases at scale.” The report also stated that MicroStrategy’s “core strength remains a powerful, highly scalable ROLAP, which can optimize queries beyond DBMS capabilities; perform complex heterogeneous joins between multiple DBMSes; and support a drill-anywhere capability, which can reduce the number of siloed reports and dashboards. MicroStrategy received one of the best scores in our evaluation’s ‘clicks to answer’ exercise.”

“We are seeing tremendous momentum from customers and partners around MicroStrategy 10 because it offers a unique value proposition: enterprise analytics and mobility on one platform,” said David Rennyson, Senior Executive Vice President, Worldwide Sales, MicroStrategy Incorporated. “Thousands of our customers and partners have come to the realization that there’s nothing else in the market that comes close to the depth and breadth of MicroStrategy 10’s powerful analytics and mobile capabilities, integrations with leading technology vendors and open-source tools, and enterprise-class performance and scalability. We encourage anyone interested in viewing MicroStrategy’s ratings to download The Forrester Wave report today.”

Independent Analyst BARC Named MicroStrategy Market Leader In Data Discovery

In July 2017, MicroStrategy announced it was named a Market Leader and ranked No. 1 in product capabilities in the [BARC Score Data Discovery Report](#). The report was based on vendors’ performance in a detailed test case as well as on findings from the organization’s BI Survey, the world’s largest independent survey of business intelligence and performance management users.

“MicroStrategy continues to receive top honors in our BI surveys and rankings, now demonstrated in our new BARC Score Data Discovery Report. This is a testament to MicroStrategy’s continued focus on product innovation and its dedication to making solutions that are as comprehensive as they are intuitive,” said Dr. Carsten Bange, Founder and CEO of BARC.

“MicroStrategy’s elite placement is a reflection of our ongoing commitment to a true enterprise platform and our dedication to supporting business users in every step of their data discovery process,” said Mark Gambill. “The market for software supporting data discovery continues to emerge, and MicroStrategy has invested heavily to meet the growing need for tools that efficiently analyze and explore data.”

Outranking some other large international rivals, MicroStrategy made it into the Market Leader category. Its ranking in the product capabilities category further demonstrates excellence and leadership as a highly scalable enterprise-grade BI platform.

According to the BARC Score Data Discovery Report, “the way MicroStrategy supports the user during data preparation is the sweet spot of the solution. The user is presented with relevant functions based on the current context, and the possible outcome of available options (e.g. when splitting data) is shown immediately alongside the existing data. No functions have to be used and the history script created in the background provides the necessary transparency.”

In addition to achieving high ratings in the BARC Score Data Discovery Report, MicroStrategy also recently achieved high ratings in the large enterprise BI platforms peer group in the BARC BI Survey 16:

- Ranked #1 Cloud BI – BARC BI Survey
- Ranked #1 Data Discovery/visualization – BARC BI Survey
- Ranked #1 Location Intelligence – BARC BI Survey
- Ranked #1 Chosen as standard – BARC BI Survey
- Ranked #1 Mobile BI – BARC BI Survey

Non-GAAP Financial Measure

MicroStrategy is providing a supplemental financial measure for income from continuing operations that excludes the impact of share-based compensation arrangements and restructuring activities. This financial measure is not a measurement of financial performance under generally accepted accounting principles in the United States (“GAAP”) and, as a result, this financial measure may not be comparable to similarly titled measures of other companies. Management uses this non-GAAP financial measure internally to help understand, manage and evaluate business performance and to help make operating decisions. MicroStrategy believes that this non-GAAP financial measure is also useful to investors and analysts in comparing its performance across reporting periods on a consistent basis because it excludes a significant non-cash expense that MicroStrategy believes is not reflective of its general business performance and restructuring charges that we believe are not reflective of ongoing operating results. In addition, accounting for share-based compensation arrangements requires significant management judgment and the resulting expense could vary significantly in comparison to other companies. Therefore, MicroStrategy believes the use of this non-GAAP financial measure can also facilitate comparison of MicroStrategy’s operating results to those of its competitors.

About MicroStrategy Incorporated

MicroStrategy (Nasdaq: MSTR) is a worldwide leader in enterprise analytics and mobility software. A pioneer in the BI and analytics space, MicroStrategy delivers innovative software that empowers people to make better decisions and transform the way they do business. We provide our enterprise customers with world-class software and expert services so they can deploy unique intelligence applications. To learn more, visit [MicroStrategy](#) online, and follow us on [Facebook](#) and [Twitter](#).

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This press release may include statements that may constitute “forward-looking statements,” including estimates of future business prospects or financial results and statements containing the words “believe,” “estimate,” “project,” “expect” or similar expressions. Forward-looking statements inherently involve risks and uncertainties that could cause actual results of MicroStrategy Incorporated and its subsidiaries (collectively, the “Company”) to differ materially from the forward-looking statements. Factors that could contribute to such differences include: the extent and timing of market acceptance of MicroStrategy’s new offerings, including MicroStrategy 10.9; the Company’s ability to recognize revenue or deferred revenue through delivery of products or satisfactory performance of services; continued acceptance of the Company’s other products in the marketplace; fluctuations in tax benefits or provisions; the timing of significant orders; delays in or the inability of the Company to develop or ship new products; competitive factors; general economic conditions, including economic uncertainty in the retail industry, in which the Company has a significant number of customers; currency fluctuations; and other risks detailed in the Company’s registration statements and periodic reports filed with the Securities and Exchange Commission. By making these forward-looking statements, the Company undertakes no obligation to update these statements for revisions or changes after the date of this release.

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MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF OPERATIONS
(in thousands, except per share data)

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
	(unaudited)	(unaudited)	(unaudited)	(unaudited)
Revenues				
Product licenses	\$ 21,553	\$ 29,632	\$ 61,683	\$ 75,490
Subscription services	7,725	7,639	23,843	22,775
Total product licenses and subscription services	29,278	37,271	85,526	98,265
Product support	72,886	72,460	214,142	212,408
Other services	23,048	20,165	66,730	61,380
Total revenues	125,212	129,896	366,398	372,053
Cost of revenues				
Product licenses	1,763	2,370	5,182	6,828
Subscription services	3,592	3,219	10,031	9,667
Total product licenses and subscription services	5,355	5,589	15,213	16,495
Product support	4,218	3,959	13,094	10,919
Other services	14,816	13,387	43,589	42,445
Total cost of revenues	24,389	22,935	71,896	69,859
Gross profit	100,823	106,961	294,502	302,194
Operating expenses				
Sales and marketing	41,806	39,169	122,635	113,448
Research and development	19,360	18,069	57,347	54,804
General and administrative	19,082	19,703	58,921	63,014
Restructuring costs	0	12	0	45
Total operating expenses	80,248	76,953	238,903	231,311
Income from operations	20,575	30,008	55,599	70,883
Interest income, net	1,449	507	3,449	1,449
Other expense, net	(1,903)	(473)	(6,377)	(386)
Income before income taxes	20,121	30,042	52,671	71,946
Provision for income taxes	2,197	3,414	8,804	12,162
Net income	\$ 17,924	\$ 26,628	\$ 43,867	\$ 59,784
Basic earnings per share (1):	\$ 1.57	\$ 2.33	\$ 3.83	\$ 5.23
Weighted average shares outstanding used in computing basic earnings per share	11,447	11,431	11,443	11,422
Diluted earnings per share (1):	\$ 1.56	\$ 2.31	\$ 3.79	\$ 5.20
Weighted average shares outstanding used in computing diluted earnings per share	11,499	11,521	11,567	11,503

(1) Basic and fully diluted earnings per share for class A and class B common stock are the same.

MICROSTRATEGY INCORPORATED
CONSOLIDATED BALANCE SHEETS
(in thousands, except per share data)

	September 30, 2017 (unaudited)	December 31, 2016*
Assets		
Current assets		
Cash and cash equivalents	\$ 386,855	\$ 401,975
Restricted cash	764	737
Short-term investments	259,249	187,408
Accounts receivable, net	66,337	83,319
Prepaid expenses and other current assets	17,649	11,548
Total current assets	730,854	684,987
Property and equipment, net	53,712	57,436
Capitalized software development costs, net	3,999	8,497
Deposits and other assets	7,099	5,695
Deferred tax assets, net	17,988	11,704
Total Assets	\$ 813,652	\$ 768,319
Liabilities and Stockholders' Equity		
Current liabilities		
Accounts payable and accrued expenses	\$ 25,368	\$ 36,628
Accrued compensation and employee benefits	36,039	43,323
Deferred revenue and advance payments, net	115,420	105,535
Total current liabilities	176,827	185,486
Deferred revenue and advance payments, net	9,767	13,915
Other long-term liabilities	14,560	16,447
Deferred tax liabilities	159	294
Total Liabilities	201,313	216,142
Stockholders' Equity		
Preferred stock undesignated, \$0.001 par value; 5,000 shares authorized; no shares issued or outstanding	0	0
Class A common stock, \$0.001 par value; 330,000 shares authorized; 15,817 shares issued and 9,412 shares outstanding, and 15,805 shares issued and 9,400 shares outstanding, respectively	16	16
Class B convertible common stock, \$0.001 par value; 165,000 shares authorized; 2,035 shares issued and outstanding, and 2,035 shares issued and outstanding, respectively	2	2
Additional paid-in capital	556,209	543,974
Treasury stock, at cost; 6,405 shares	(475,184)	(475,184)
Accumulated other comprehensive loss	(6,683)	(10,743)
Retained earnings	537,979	494,112
Total Stockholders' Equity	612,339	552,177
Total Liabilities and Stockholders' Equity	\$ 813,652	\$ 768,319

* Derived from audited financial statements.

MICROSTRATEGY INCORPORATED
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)

	Nine Months Ended September 30,	
	2017 (unaudited)	2016 (unaudited)
Operating activities:		
Net income	\$ 43,867	\$ 59,784
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	9,838	13,089
Bad debt expense	1,726	1,219
Deferred taxes	(6,214)	(4,439)
Release of liabilities for unrecognized tax benefits	0	(394)
Share-based compensation expense	10,557	8,424
Excess tax benefits from share-based compensation arrangements	0	(1,208)
Changes in operating assets and liabilities:		
Accounts receivable	18,804	8,983
Prepaid expenses and other current assets	(3,954)	(657)
Deposits and other assets	(1,280)	(3,905)
Accounts payable and accrued expenses	(14,468)	(4,668)
Accrued compensation and employee benefits	(8,845)	717
Accrued restructuring costs	0	(56)
Deferred revenue and advance payments, net	1,156	19,435
Other long-term liabilities	(1,904)	(2,288)
Net cash provided by operating activities	<u>49,283</u>	<u>94,036</u>
Investing activities:		
Proceeds from redemption of short-term investments	340,920	273,520
Purchases of property and equipment	(2,282)	(1,560)
Purchases of short-term investments	(411,666)	(292,948)
Net cash used in investing activities	<u>(73,028)</u>	<u>(20,988)</u>
Financing activities:		
Proceeds from sale of class A common stock under exercise of employee stock options	1,677	1,157
Payment of taxes relating to net exercise of employee stock options	0	(3,739)
Excess tax benefits from share-based compensation arrangements	0	1,208
Payments on capital lease obligations and other financing arrangements	(17)	(166)
Net cash provided by (used in) financing activities	<u>1,660</u>	<u>(1,540)</u>
Effect of foreign exchange rate changes on cash, cash equivalents, and restricted cash	<u>6,992</u>	<u>1,654</u>
Net (decrease) increase in cash, cash equivalents, and restricted cash	<u>(15,093)</u>	<u>73,162</u>
Cash, cash equivalents, and restricted cash, beginning of period	<u>402,712</u>	<u>292,959</u>
Cash, cash equivalents, and restricted cash, end of period	<u>\$ 387,619</u>	<u>\$ 366,121</u>

MICROSTRATEGY INCORPORATED
REVENUE AND COST OF REVENUE DETAIL
(in thousands)

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
	(unaudited)	(unaudited)	(unaudited)	(unaudited)
Revenues				
Product licenses and subscription services:				
Product licenses	\$ 21,553	\$ 29,632	\$ 61,683	\$ 75,490
Subscription services	7,725	7,639	23,843	22,775
Total product licenses and subscription services	<u>29,278</u>	<u>37,271</u>	<u>85,526</u>	<u>98,265</u>
Product support	72,886	72,460	214,142	212,408
Other services:				
Consulting	20,645	17,669	59,482	54,297
Education	2,403	2,496	7,248	7,083
Total other services	<u>23,048</u>	<u>20,165</u>	<u>66,730</u>	<u>61,380</u>
Total revenues	<u>125,212</u>	<u>129,896</u>	<u>366,398</u>	<u>372,053</u>
Cost of revenues				
Product licenses and subscription services:				
Product licenses	1,763	2,370	5,182	6,828
Subscription services	3,592	3,219	10,031	9,667
Total product licenses and subscription services	<u>5,355</u>	<u>5,589</u>	<u>15,213</u>	<u>16,495</u>
Product support	4,218	3,959	13,094	10,919
Other services:				
Consulting	13,295	11,909	38,579	38,309
Education	1,521	1,478	5,010	4,136
Total other services	<u>14,816</u>	<u>13,387</u>	<u>43,589</u>	<u>42,445</u>
Total cost of revenues	<u>24,389</u>	<u>22,935</u>	<u>71,896</u>	<u>69,859</u>
Gross profit	<u>\$ 100,823</u>	<u>\$ 106,961</u>	<u>\$ 294,502</u>	<u>\$ 302,194</u>

MICROSTRATEGY INCORPORATED
DEFERRED REVENUE DETAIL
(in thousands)

	September 30, 2017 <small>(unaudited)</small>	December 31, 2016* <small>(unaudited)</small>	September 30, 2016 <small>(unaudited)</small>
Current:			
Deferred product licenses revenue	\$ 10,771	\$ 13,023	\$ 11,401
Deferred subscription services revenue	15,583	18,303	12,820
Deferred product support revenue	141,496	162,781	140,593
Deferred other services revenue	8,743	10,015	9,226
Gross current deferred revenue and advance payments	176,593	204,122	174,040
Less: unpaid deferred revenue	(61,173)	(98,587)	(58,414)
Net current deferred revenue and advance payments	<u>\$ 115,420</u>	<u>\$ 105,535</u>	<u>\$ 115,626</u>
Non-current:			
Deferred product licenses revenue	\$ 7,320	\$ 9,118	\$ 9,918
Deferred subscription services revenue	406	1,307	1,594
Deferred product support revenue	5,790	5,751	6,394
Deferred other services revenue	990	690	763
Gross non-current deferred revenue and advance payments	14,506	16,866	18,669
Less: unpaid deferred revenue	(4,739)	(2,951)	(3,518)
Net non-current deferred revenue and advance payments	<u>\$ 9,767</u>	<u>\$ 13,915</u>	<u>\$ 15,151</u>
Total current and non-current:			
Deferred product licenses revenue	\$ 18,091	\$ 22,141	\$ 21,319
Deferred subscription services revenue	15,989	19,610	14,414
Deferred product support revenue	147,286	168,532	146,987
Deferred other services revenue	9,733	10,705	9,989
Gross current and non-current deferred revenue and advance payments	191,099	220,988	192,709
Less: unpaid deferred revenue	(65,912)	(101,538)	(61,932)
Net current and non-current deferred revenue and advance payments	<u>\$ 125,187</u>	<u>\$ 119,450</u>	<u>\$ 130,777</u>

* Derived from audited financial statements.

MICROSTRATEGY INCORPORATED
RECONCILIATION OF GAAP TO NON-GAAP MEASURES
(in thousands)

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
	(unaudited)	(unaudited)	(unaudited)	(unaudited)
Reconciliation of non-GAAP income from operations:				
Income from operations	\$ 20,575	\$ 30,008	\$ 55,599	\$ 70,883
Share-based compensation expense	3,668	3,349	10,557	8,424
Restructuring costs	0	12	0	45
Non-GAAP income from operations	<u>\$ 24,243</u>	<u>\$ 33,369</u>	<u>\$ 66,156</u>	<u>\$ 79,352</u>

MICROSTRATEGY INCORPORATED
WORLDWIDE EMPLOYEE HEADCOUNT

	<u>September 30,</u> <u>2016</u>	<u>December 31,</u> <u>2016</u>	<u>March 31,</u> <u>2017</u>	<u>June 30,</u> <u>2017</u>	<u>September 3</u> <u>2017</u>
Subscription services	49	48	41	49	49
Product support	162	171	185	176	176
Consulting	458	453	447	448	448
Education	35	39	41	42	42
Sales and marketing	571	587	620	642	642
Research and development	528	512	522	526	526
General and administrative	317	323	306	301	301
Total headcount	<u>2,120</u>	<u>2,133</u>	<u>2,162</u>	<u>2,184</u>	<u>2,184</u>