3D SYSTEMS CORP Form 10-Q October 30, 2018

UNITED STATES SECURITIES AND EXCHANGE COM Washington, D.C. 20549	MISSION
FORM 10 Q	
QUARTERLY REPORT PURSUANT	TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF
For the quarterly period ended September	
OR	
TRANSITION REPORT PURSUANT 1934	TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF
For the transition period from	to
Commission File No. 001-34220	
3D SYSTEMS CORPORATION (Exact name of Registrant as specified in	its Charter)
DELAWARE	95 4431352
(State or Other Jurisdiction of	(I.R.S. Employer
Incorporation or Organization)	Identification No.)
333 THREE D SYSTEMS CIRCLE ROCK HILL, SOUTH CAROLINA	29730
(Address of Principal Executive Offices)	(Zip 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 x No "

(Registrant's Telephone Number, Including Area Code): (803) 326 3900

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes x 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 x Accelerated filer "

Non-accelerated filer "(Do not check if smaller reporting company) Smaller reporting company"

Emerging growth company "

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

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

APPLICABLE ONLY TO CORPORATE ISSUERS:

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.

Shares of Common Stock, par value \$0.001, outstanding as of October 23, 2018: 114,180,543

Form 10-Q

For the Quarter and Nine Months Ended September 30, 2018

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PART I — FINANCIAL INFORMATION

Item 1. Financial Statements.

3D SYSTEMS CORPORATION CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands, except par value)	September 30, 2018 (unaudited)	December 3 2017	31,
ASSETS			
Current assets:	Φ 02 002	ф 12 <i>С</i> 244	
Cash and cash equivalents	\$ 92,093	\$ 136,344	
Accounts receivable, net of reserves — \$11,029 (2018) and \$10,258 (2017)	127,092	129,879	
Inventories	128,164	103,903	
Insurance proceeds receivable		50,000	
Prepaid expenses and other current assets	27,028	18,296	
Total current assets	374,377	438,422	
Property and equipment, net	104,780	97,521	
Intangible assets, net	74,459	98,783	
Goodwill	224,040	230,882	
Deferred income tax asset	7,171	4,020	
Other assets, net	26,143	27,136	
Total assets	\$ 810,970	\$ 896,764	
LIABILITIES AND EQUITY			
Current liabilities:			
Current portion of capitalized lease obligations	\$ 651	\$ 644	
Accounts payable	61,556	55,607	
Accrued and other liabilities	61,676	65,899	
Accrued litigation settlement	_	50,000	
Customer deposits	4,934	5,765	
Deferred revenue	34,899	29,214	
Total current liabilities	163,716	207,129	
Long term portion of capitalized lease obligations	6,563	7,078	
Deferred income tax liability	9,002	8,983	
Other liabilities	44,622	48,754	
Total liabilities	223,903	271,944	
Redeemable noncontrolling interests	8,872	8,872	
Commitments and contingencies (Note 13)			
Stockholders' equity:			
Common stock, \$0.001 par value, authorized 220,000 shares; issued 118,452 (2018) and	117	115	
117,025 (2017)	117	113	
Additional paid-in capital	1,347,332	1,326,250	
Treasury stock, at cost — 2,769 shares (2018) and 2,219 shares (2017)	(13,926)	(8,203)
Accumulated deficit	(718,565)	(677,772)
Accumulated other comprehensive loss	(34,422)	(21,536)
Total 3D Systems Corporation stockholders' equity	580,536	618,854	
Noncontrolling interests	(2,341)	(2,906)
Total stockholders' equity	578,195	615,948	
Total liabilities, redeemable noncontrolling interests and stockholders' equity	\$ 810,970	\$ 896,764	

See accompanying notes to condensed consolidated financial statements.

3D SYSTEMS CORPORATION CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited)

	Quarter En		Nine Mont September	
(in thousands, except per share amounts)	2018	2017	2018	2017
Revenue:				
Products	\$99,922	\$90,730	\$316,153	\$286,249
Services	64,589	62,177	190,795	182,556
Total revenue	164,511	152,907	506,948	468,805
Cost of sales:				
Products	54,444	62,662	168,062	160,610
Services	32,257	31,723	97,045	88,814
Total cost of sales	86,701	94,385	265,107	249,424
Gross profit	77,810	58,522	241,841	219,381
Operating expenses:				
Selling, general and administrative	65,600	66,497	206,225	195,990
Research and development	23,194	24,360	71,788	71,661
Total operating expenses	88,794	90,857	278,013	267,651
Loss from operations	(10,984)	(32,335)	(36,172)	(48,270)
Interest and other income (expense), net	1,027	(1,257)	1,135	(123)
Loss before income taxes	(9,957)	(33,592)	(35,037)	(48,393)
Provision for income taxes	1,593	3,723	6,086	6,831
Net loss	(11,550)	(37,315)	(41,123)	(55,224)
Less: net income attributable to noncontrolling interests	_	355	246	833
Net loss attributable to 3D Systems Corporation	\$(11,550)	\$(37,670)	\$(41,369)	\$(56,057)
Net loss per share available to 3D Systems Corporation common stockholders - basic and diluted	\$(0.10)	\$(0.34)	\$(0.37)	\$(0.50)

See accompanying notes to condensed consolidated financial statements.

3D SYSTEMS CORPORATION CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS (Unaudited)

	Quarter Ended		Nine Months Ended	
	September	30,	September	30,
(in thousands, except per share amounts)	2018	2017	2018	2017
Net loss	\$(11,550)	\$(37,315)	\$(41,123)	\$(55,224)
Other comprehensive income (loss), net of taxes:				
Pension adjustments	57	(24)	204	(105)
Foreign currency translation	(1,894)	4,904	(13,090)	25,785
Total other comprehensive income (loss), net of taxes:	(1,837)	4,880	(12,886)	25,680
Total comprehensive loss, net of taxes	(13,387)	(32,435)	(54,009)	(29,544)
Comprehensive income attributable to noncontrolling interests	26	381	565	994
Comprehensive loss attributable to 3D Systems Corporation	\$(13,413)	\$(32,816)	\$(54,574)	\$(30,538)

See accompanying notes to condensed consolidated financial statements.

3D SYSTEMS CORPORATION CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

			Nine Mo Septemb		hs Ended 30,	
(In thousands)			2018		2017	
Cash flows from operating activities:						
Net loss			\$(41,123	3)	\$(55,224	!)
Adjustments to reconcile net loss to net cash (used in) provided by operati	ng activi	ties:				
Depreciation and amortization			44,986		46,146	
Stock-based compensation			21,082		21,084	
Lower of cost or market adjustment			_		12,883	
Provision for bad debts			2,522		1,297	
Provision for deferred income taxes			(3,132)	1,674	
Impairment of assets			1,411		324	
Changes in operating accounts, net of acquisitions:						
Accounts receivable			(1,509)	10,777	
Inventories			(29,502)	(13,959)
Prepaid expenses and other current assets			41,589		(2,939)
Accounts payable			6,261		3,463	
Accrued and other current liabilities			(45,346)	(1,865)
All other operating activities			(170)	(5,985)
Net cash (used in) provided by operating activities			(2,931)	17,676	
Cash flows from investing activities:						
Purchases of property and equipment			(28,323)	(21,072)
Additions to license and patent costs			(740)	(875)
Cash paid for acquisitions, net of cash assumed			_		(36,541)
Other investing activities			(496)	(2,350)
Proceeds from disposition of property and equipment			9		271	
Net cash used in investing activities			(29,550)	(60,567)
Cash flows from financing activities:						
Payments on earnout consideration			(2,675)	(3,206)
Payments related to net-share settlement of stock-based compensation			(5,723)	(4,494)
Repayment of capital lease obligations			(508)	(297)
Net cash used in financing activities			(8,906)	(7,997)
Effect of exchange rate changes on cash, cash equivalents and restricted ca	ash		(2,417)	4,273	
Net decrease in cash, cash equivalents and restricted cash			(43,804)	(46,615)
Cash, cash equivalents and restricted cash at the beginning of the period (a))		136,831		184,947	
Cash, cash equivalents and restricted cash at the end of the period (a)			\$93,027		\$138,332	2
Cash interest payments	\$353	\$378				
Cash income tax payments, net	\$7,119	\$4,715	5			
Transfer of equipment from inventory to property and equipment, net (b)	\$4,638	\$8,964	1			
Transfer of equipment to inventory from property and equipment, net (c)	\$628	\$364				
Stock issued for acquisitions	\$—	\$3,208	}			

The amounts for cash and cash equivalents shown above include restricted cash of \$934 and \$482 as of September (a) 30, 2018 and 2017, respectively, and \$487 and \$301 as of December 31, 2017, and 2016, respectively, which were included in other assets, net, in the condensed consolidated balance sheets.

(b)

Inventory is transferred from inventory to property and equipment at cost when the Company requires additional machines for training or demonstration or for placement into on demand manufacturing services locations.

(c) In general, an asset is transferred from property and equipment, net, into inventory at its net book value when the Company has identified a potential sale for a used machine.

See accompanying notes to condensed consolidated financial statements.

3D SYSTEMS CORPORATION CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (Unaudited)

(Chadanea)	Comr	non Stock							
(in thousands, except par value)	Par Value \$0.00	Additional Paid In Capital	Stock	Accumulated Deficit	Income (Loss)	Systems iveorporation Stockholder Equity	Equity Attributable to s'Noncontroll: Interests	Stockholders	s'
Balance at December 31, 2017		\$1,326,250	\$(8,203)	\$(677,772)	\$ (21,536)	\$618,854	\$ (2,906)	\$615,948	
Issuance (repurchase) of stock	2	_	(5,723)	_	_	(5,721)	_	(5,721)	
Cumulative impact of change in accounting policy Stock-based		_	_	576	_	576	_	576	
compensation expense		21,082	_	_	_	21,082	_	21,082	
Net income (loss) Pension adjustment	_	_	_	(41,369)	 204	(41,369) 204	246 —	(41,123) 204	
Foreign currency translation adjustmen		_	_	_		(13,090)	319	(12,771)	
Balance at September 30, 2018	\$117	\$1,347,332	\$(13,926)	\$(718,565)	\$ (34,422)	\$ 580,536	\$ (2,341)	\$ 578,195	
30, 2010									
30, 2010		mon Stock							
(in thousands, except par value)	Par Value \$0.00	mon Stock Additional Paid In Capital	Treasury Stock	Accumulated Deficit	Accumulated Other Comprehens Income (Loss)	Systems iveorporation	Equity Attributable to s'Noncontroll Interests	Stockholders	s'
(in thousands, except	Par Value \$0.00	Additional Paid In Capital			Other Comprehens Income	Systems incorporation Stockholder Equity	Attributable to s'Noncontroll Interests	Stockholders	s'
(in thousands, except par value) Balance at December	Par Value \$0.00	Additional Paid In Capital		\$(621,787)	Other Comprehens Income (Loss)	Systems incorporation Stockholder Equity	Attributable to s'Noncontroll Interests	Stockholders in Equity	s'
(in thousands, except par value) Balance at December 31, 2016 Issuance (repurchase) of stock Issuance of stock for acquisitions	Par Value \$0.00	Additional Paid In Capital	\$(2,658)	\$(621,787)	Other Comprehens Income (Loss)	Systems iveorporation Stockholder Equity \$ 629,873	Attributable to s'Noncontroll Interests	Stockholders in Equity \$626,700	s'
(in thousands, except par value) Balance at December 31, 2016 Issuance (repurchase) of stock Issuance of stock for acquisitions Purchase of subsidiar shares from noncontrolling interest	Par Value \$0.00 \$115 ——————————————————————————————————	Additional e Paid In DiCapital \$1,307,428	\$(2,658)	\$(621,787)	Other Comprehens Income (Loss)	Systems in Corporation Stockholder Equity \$ 629,873 (4,495) 3,208	Attributable to s'Noncontroll Interests \$ (3,173)	Stockholders in Equity \$626,700 (4,495)	s'
(in thousands, except par value) Balance at December 31, 2016 Issuance (repurchase) of stock Issuance of stock for acquisitions Purchase of subsidiar shares from	Par Value \$0.00 \$115	Additional e Paid In DiCapital \$1,307,428 — 3,208	\$(2,658)	\$(621,787)	Other Comprehens Income (Loss) \$ (53,225)	Systems in Corporation Stockholder Equity \$ 629,873 (4,495) 3,208	Attributable to s'Noncontroll Interests \$ (3,173)	Stockholders in Equity \$ 626,700 (4,495) 3,208	s'
(in thousands, except par value) Balance at December 31, 2016 Issuance (repurchase) of stock Issuance of stock for acquisitions Purchase of subsidiar shares from noncontrolling interes Cumulative impact of change in accounting	Par Value \$0.00 \$115	Additional e Paid In DiCapital \$1,307,428 — 3,208 (1,440	\$(2,658) (4,495) —	\$(621,787) — —	Other Comprehens Income (Loss) \$ (53,225)	Systems in Corporation Stockholder Equity \$ 629,873 (4,495) 3,208	Attributable to s'Noncontroll Interests \$ (3,173)	Stockholders in Equity \$ 626,700 (4,495) 3,208	s'
(in thousands, except par value) Balance at December 31, 2016 Issuance (repurchase) of stock Issuance of stock for acquisitions Purchase of subsidiar shares from noncontrolling interes Cumulative impact of change in accounting policy Stock-based	Par Value \$0.00 \$115	Additional e Paid In DiCapital \$1,307,428 — 3,208 (1,440 (10,206	\$(2,658) (4,495) —	\$(621,787) — —	Other Comprehens Income (Loss) \$ (53,225)	Systems in Corporation Stockholder Equity \$ 629,873 (4,495) 3,208 (1,390) — 21,084	Attributable to s'Noncontroll Interests \$ (3,173)	Stockholders in Equity \$626,700 (4,495) 3,208 (2,250)	s'

Foreign currency translation adjustment Balance at September \$115 \$1,320,074 \$(7,153) \$(667,638) \$(27,706) \$617,692 \$(3,039) \$614,653

See accompanying notes to condensed consolidated financial statements.

3D SYSTEMS CORPORATION NOTES TO THE CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

(1) Basis of Presentation

The accompanying unaudited condensed consolidated financial statements include the accounts of 3D Systems Corporation and

all majority-owned subsidiaries and entities in which a controlling interest is maintained (the "Company"). A non-controlling interest in a subsidiary is considered an ownership interest in a majority-owned subsidiary that is not attributable to the parent. The Company includes noncontrolling interests as a component of total equity in the condensed consolidated balance sheets and the net income attributable to noncontrolling interests are presented as an adjustment from net loss used to arrive at net loss attributable to 3D Systems Corporation in the condensed consolidated statements of operations and comprehensive loss. All significant intercompany transactions and balances have been eliminated in consolidation.

The unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America ("GAAP") and the rules and regulations of the Securities and Exchange Commission ("SEC") applicable to interim reports. Accordingly, they do not include all the information and notes required by GAAP for complete financial statements and should be read in conjunction with the audited financial statements included in the Company's Annual Report on Form 10-K for the year ended December 31, 2017 ("Form 10-K").

In the opinion of management, the unaudited condensed consolidated financial statements contain all adjustments, consisting of adjustments of a normal recurring nature, necessary to present fairly the financial position, results of operations and cash flows for the periods presented. The results of operations for the quarter and nine months ended September 30, 2018 are not necessarily indicative of the results to be expected for the full year. The preparation of financial statements in accordance with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements. Actual results may differ from those estimates and assumptions. Certain prior period amounts presented in the condensed consolidated financial statements and accompanying footnotes have been reclassified to conform to current year presentation. Beginning in 2018, the Company classifies product warranty revenue and related expenses within the "Products" line items of the Consolidated Statements of Operations.

All dollar amounts presented in the accompanying footnotes are presented in thousands, except for per share information.

Recently Adopted Accounting Standards

In May 2017, the FASB issued ASU No. 2017-09, "Compensation - Stock Compensation (Topic 718): Scope of Modification Accounting" ("ASU 2017-09"), in an effort to reduce diversity and clarify what constitutes a modification, as it relates to the change in terms or conditions of a share-based payment award. According to ASU 2017-09, the Company should account for the effects of a modification unless all of the following are met: (1) the fair value of the modified award is the same as the fair value of the original award immediately before the original award is modified, (2) the vesting conditions of the modified award are the same as the vesting conditions of the original award immediately before the original award is modified, and (3) the classification of the modified award as an equity instrument or a liability instrument is the same as the classification of the original award immediately before the original award is modified. The amendments in ASU 2017-09 are effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2017, with early adoption permitted. The Company

adopted ASU 2017-09 beginning January 1, 2018 and the implementation of this guidance did not have a material effect on its consolidated financial statements.

In March 2017, the FASB issued ASU No. 2017-07, "Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost" ("ASU 2017-07"), which standardizes the presentation of net benefit cost in the income statement and on the components eligible for capitalization in assets. ASU 2017-07 is effective for fiscal years beginning after December 15, 2017, including interim periods within those annual periods. The amendments in ASU 2017-07 should be applied retrospectively for the presentation of the service cost component and the other components of net periodic pension cost and net periodic postretirement benefit cost in the income statement and prospectively, on and after the effective date, for the capitalization of the service cost component of net periodic pension cost and net periodic postretirement benefit in assets. The Company adopted ASU 2017-07 in the first quarter of 2018 and the implementation of this guidance did not have a material effect on its consolidated financial statements.

On January 1, 2018, the Company adopted Accounting Standards Codification ("ASC") Topic 606, "Revenue from Contracts with Customers." The standard outlines a five-step model whereby revenue is recognized as performance obligations within a contract are satisfied. The standard also requires new, expanded disclosures regarding revenue recognition. The Company adopted the

standard using the modified retrospective transition method and applied its guidance to contracts not completed at the adoption date. The cumulative effect of initial adoption was recorded as a \$576 decrease to the January 1, 2018 opening Accumulated Deficit balance and driven primarily by the timing of recognition related to marketing incentives. The effect of this adoption was immaterial to the Consolidated Financial Statements, and the Company does not expect a material effect to its Consolidated Financial Statements on an ongoing basis. Information for comparative periods has not been restated and continues to be reported under the previously applicable revenue accounting guidance ("ASC 605"). Had ASC 605 been applied to the first nine months of 2018, the Consolidated Statements of Operations and Comprehensive Loss would have shown increased Revenue and a decrease in Net Loss Attributable to 3D Systems Corporation of \$327. On the Consolidated Balance Sheets, Other Assets would have been \$466 lower, Deferred Revenues would have been \$217 lower and the Accumulated Deficit would have increased by \$249.

Accounting Standards Issued But Not Yet Adopted

In February 2018, the FASB issued ASU No. 2018-02, "Income Statement - Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income" (ASU 2018-02), which provides companies with an option to reclassify stranded tax effects resulting from the U.S. Tax Cuts and Jobs Act from accumulated other comprehensive income to retained earnings. ASU 2018-02 is effective for fiscal years beginning after December 15, 2018, with early adoption permitted. The Company is currently in the process of evaluating when it will adopt ASU 2018-02 and its impact on its consolidated financial statements.

In August 2017, the FASB issued ASU No. 2017-12, "Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities" ("ASU 2017-12"), in order to create more transparency around how economic results are presented within both the financial statements and in the footnotes and to better align the results of cash flow and fair value hedge accounting with risk management activities. ASU 2017-12 is effective for fiscal years beginning after December 15, 2018, with early adoption permitted. The Company is currently in the process of evaluating when it will adopt ASU 2017-12 and its impact on its consolidated financial statements.

In January 2017, the FASB issued ASU No. 2017-04, "Intangibles - Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment" ("ASU 2017-04"), which eliminates the performance of Step 2 from the goodwill impairment test. In performing its annual or interim impairment testing, an entity will instead compare the fair value of the reporting unit with its carrying amount and recognize any impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value. Additionally, an entity should consider income tax effects from any tax deductible goodwill on the carrying amount of the reporting unit when measuring the goodwill impairment loss. The standard is effective for fiscal years beginning after December 15, 2019. Early adoption is permitted for interim or annual impairment tests performed on testing dates after January 1, 2017. The Company is currently in the process of evaluating when it will adopt ASU 2017-04 and its impact on its consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, "Leases (Topic 842)" ("ASU 2016-02"). ASU 2016-02 requires lessees to recognize assets and liabilities on the balance sheet for all leases with terms longer than twelve months. The ASU also requires disclosure of key information about leasing arrangements. ASU 2016-02 is effective on January 1, 2019, using a modified retrospective method of adoption. In August 2018, the FASB issued ASU 2018-11, "Targeted Improvements to ASC 842", which includes an option to not restate comparative periods in transition and elect to use the effective date of ASC Topic 842, "Leases," as the date of initial application of transition. Based on the effective date, this guidance will apply and the Company will adopt this ASU beginning on January 1, 2019 and plans to elect the transition option provided under ASU 2018-11 and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The Company expects to apply the package of practical expedients that allows it to avoid the reassessment of: (1) whether any expired or existing contracts are or contain leases, (2) lease classification for any expired or existing leases and (3) initial direct costs for any expired or existing

leases. The Company also expects to use the practical expedient that allows it to treat the lease and non-lease components of its leases as a single component for its real estate leases. The Company is reviewing its population of leased assets to determine potential impacts on its consolidated financial statements. The Company is also in the process of evaluating adjustments to business processes, systems and controls to support lease accounting and disclosures under ASC Topic 842. Though its evaluation is ongoing, the Company expects a significant change to the balance sheet due to the recognition of right-of-use assets and lease liabilities primarily related to its real estate leases, but it does not anticipate material impacts to its results of operations or liquidity.

No other new accounting pronouncements, issued or effective during 2018, have had or are expected to have a significant impact on the Company's consolidated financial statements.

(2) Revenue

The Company accounts for revenue in accordance with ASC Topic 606, "Revenue from Contracts with Customers," which it adopted on January 1, 2018, using the modified-retrospective method. See Note 1 for further discussion of the adoption.

Performance Obligations

A performance obligation is a promise in a contract to transfer a distinct good or service to the customer, and is the unit of account in ASC Topic 606. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied.

At September 30, 2018, the Company had \$110,210 of outstanding performance obligations. The Company expects to recognize approximately 91 percent of its remaining performance obligations as revenue within the next twelve months, an additional 3 percent by the end of 2019 and the balance thereafter.

Revenue Recognition

Revenue is recognized when control of the promised products or services is transferred to customers in an amount that reflects the consideration the Company expects to receive in exchange for those products or services. The Company enters into contracts that can include various combinations of products and services, which are generally capable of being distinct and accounted for as separate performance obligations. Many of its contracts with customers include multiple performance obligations. For such arrangements, the Company allocates revenue to each performance obligation based on its relative standalone selling price ("SSP"). Revenue is recognized net of allowances for returns and any taxes collected from customers, which are subsequently remitted to governmental authorities. The amount of consideration received and revenue recognized may vary based on changes in marketing incentive programs offered to our customers. The Company's marketing incentive programs take many forms, including volume discounts, trade-in allowances, rebates and other discounts.

A majority of the Company's revenue is recognized at the point in time when products are shipped or services are delivered to customers. Please see below for further discussion.

Hardware and Materials

Revenue from hardware and material sales is recognized when control has transferred to the customer which typically occurs when the goods have been shipped to the customer, risk of loss has transferred to the customer and the Company has a present right to payment for the hardware. In limited circumstances when a printer or other hardware sales include substantive customer acceptance provisions, revenue is recognized either when customer acceptance has been obtained, customer acceptance provisions have lapsed, or the Company has objective evidence that the criteria specified in the customer acceptance provisions have been satisfied.

Software

The Company also markets and sells software tools that enable our customers to capture and customize content using our printers, as well as reverse engineering and inspection software. Software does not require significant modification or customization and the license provides the customer with a right to use the software as it exists when made available. Revenue from these software licenses is recognized either upon delivery of the product or of a key code which allows the customer to download the software. Customers may purchase post-sale support. Generally, the first year is included but subsequent years are optional. This optional support is considered a separate obligation from the

software and is deferred at the time of sale and subsequently recognized ratably over future periods.

Services

The Company offers training, installation and non-contract maintenance services for its products. Additionally, the Company offers maintenance contracts customers can purchase at their option. For maintenance contracts, revenue is deferred at the time of sale based on the stand-alone selling prices of these services and costs are expensed as incurred. Deferred revenue is recognized ratably over the term of the maintenance period on a straight-line basis. Revenue from training, installation and non-contract maintenance services is recognized at the time of performance of the service.

On demand manufacturing and healthcare service sales are included within services revenue and revenue is recognized upon shipment or delivery of the parts or performance of the service, based on the terms of the arrangement.

Terms of sale

Shipping and handling activities are treated as fulfillment costs rather than as an additional promised service. The Company accrues the costs of shipping and handling when the related revenue is recognized. Costs incurred by the Company associated with shipping and handling are included in product cost of sales.

Credit is extended, and creditworthiness is determined, based on an evaluation of each customer's financial condition. New customers are generally required to complete a credit application and provide references and bank information to facilitate an analysis of creditworthiness. Customers with a favorable profile may receive credit terms that differ from the Company's general credit terms. Creditworthiness is considered, among other things, in evaluating the Company's relationship with customers with past due balances.

The Company's terms of sale generally provide payment terms that are customary in the countries where it transacts business. To reduce credit risk in connection with certain sales, the Company may, depending upon the circumstances, require significant deposits or payment in full prior to shipment. For maintenance services, the Company either bills customers on a time-and-materials basis or sells maintenance contracts that provide for payment in advance on either an annual or other periodic basis.

See Note 12 for additional information related to revenue by reportable segment and major lines of business.

Significant Judgments

The Company's contracts with customers often include promises to transfer multiple products and services to a customer. For such arrangements, the Company allocates revenues to each performance obligation based on its relative SSP.

Judgment is required to determine the SSP for each distinct performance obligation in a contract. For the majority of items, the Company estimates SSP using historical transaction data. The Company uses a range of amounts to estimate SSP when we sell each of the products and services separately and need to determine whether there is a discount to be allocated based on the relative SSP of the various products and services. In instances where SSP is not directly observable, such as when the product or service is not sold separately, the Company determines the SSP using information that may include market conditions and other observable inputs.

In some circumstances, the Company has more than one SSP for individual products and services due to the stratification of those products and services by customers, geographic region or other factors. In these instances, it may use information such as the size of the customer and geographic region in determining the SSP.

The determination of SSP is an ongoing process and information is reviewed regularly in order to ensure SSP reflects the most current information or trends.

The nature of the Company's marketing incentives may lead to consideration that is variable. Judgment is exercised at contract inception to determine the most likely outcome of the contract and resulting transaction price. Ongoing assessments are performed to determine if updates are needed to the original estimates.

Contract Balances

The timing of revenue recognition, billings and cash collections results in billed accounts receivable, unbilled receivables (contract assets), and customer deposits and deferred revenues (contract liabilities) on the Consolidated Balance Sheets. Timing of revenue recognition may differ from the timing of invoicing to customers. The Company

records a receivable when revenue is recognized at the time of invoicing, or unbilled receivables when revenue is recognized prior to invoicing. For most of the Company's contracts, customers are invoiced when products are shipped or when services are performed resulting in billed accounts receivables for the remainder of the owed contract price. Unbilled receivables generally result from items being shipped where the customer has not been charged, but for which revenue had been recognized. In the Company's on demand manufacturing business, customers may be required to pay in full before work begins on their orders, resulting in customer deposits. The Company typically bills in advance for installation, training and maintenance contracts as well as extended warranties, resulting in deferred revenue. Changes in contract asset and liability balances were not materially impacted by any other factors for the period ended September 30, 2018.

Through September 30, 2018, the Company recognized revenue of \$33,596 related to our contract liabilities at January 1, 2018.

Practical Expedients and Exemptions

The Company generally expenses sales commissions when incurred because the amortization period would be one year or less. These costs are recorded within selling, general and administrative expenses.

(3) Inventories

Components of inventories at September 30, 2018 and December 31, 2017 are summarized as follows:

 (in thousands)
 2018
 2017

 Raw materials
 \$50,533
 \$37,660

 Work in process
 4,318
 3,906

 Finished goods and parts
 73,313
 62,337

 Inventories
 \$128,164
 \$103,903

During the quarter ended September 30, 2018, the Company took efforts to increase inventory levels as it prepares to deliver on current backlog and anticipated orders. Additionally, during the quarter ended September 30, 2017 the Company recorded inventory adjustments totaling \$12.9 million resulting from its lower of cost or market analysis. The charge was effected because of ongoing efforts to focus and prioritize the Company's portfolio based on year-to-date demand, market trends and a better understanding of where the Company's offerings meet and will continue to meet customers' needs and demand. The inventory adjustments related primarily to legacy plastics printers, refurbished and used metals printers and parts which have shown little to no use over extended periods.

(4) Intangible Assets

Intangible assets, net, other than goodwill, at September 30, 2018 and December 31, 2017 are summarized as follows:

	2018				2017				
(in thousands)	Gross (a)	Accumulate Amortizatio		Net	Gross (a)	Accumulate Amortizatio		Net	Weighted Average Useful Life Remaining (in years)
Intangible assets with finite lives:									
Customer relationships	\$103,833	\$ (64,853)	\$38,980	\$105,505	\$ (57,796)	\$47,709	6
Acquired technology	49,032	(42,677)	6,355	54,716	(39,644)	15,072	2
Trade names	25,200	(17,111)	8,089	25,813	(15,552)	10,261	6
Patent costs	18,061	(8,086)	9,975	17,909	(7,338)	10,571	15
Trade secrets	19,393	(13,066)	6,327	19,431	(11,530)	7,901	4
Acquired patents	16,220	(12,761)	3,459	16,661	(11,969)	4,692	8
Other	19,624	(18,350)	1,274	20,012	(17,435)	2,577	2
Total intangible assets	\$251,363	\$ (176,904)	\$74,459	\$260,047	\$ (161,264)	\$98,783	6

⁽a) Change in gross carrying amounts consists primarily of charges for license and patent costs and foreign currency translation.

Amortization expense related to intangible assets was \$7,811 and \$23,714 for the quarter and nine months ended September 30, 2018, respectively, compared to \$8,845 and \$26,661 for the quarter and nine months ended September 30, 2017, respectively.

(5) Accrued and Other Liabilities

Accrued liabilities at September 30, 2018 and December 31, 2017 are summarized as follows:

2018	2017
\$22,086	\$20,432
17,832	13,861
7,378	7,044
5,802	5,564
2,256	11,282
2,222	742
1,445	2,485
1,469	1,679
1,073	2,772
113	38
\$61,676	\$65,899
	\$22,086 17,832 7,378 5,802 2,256 2,222 1,445 1,469 1,073 113

Other liabilities at September 30, 2018 and December 31, 2017 are summarized as follows:

(in thousands)	2018	2017
Long term employee indemnity	\$13,748	\$13,887
Long term tax liability	9,030	9,340
Defined benefit pension obligation	8,006	8,290
Long term deferred revenue	7,637	7,298
Other long term liabilities	6,201	7,596
Long term earnouts related to acquisitions	_	2,343
Total	\$44,622	\$48,754

(6) Hedging Activities and Financial Instruments

The Company conducts business in various countries using both the functional currencies of those countries and other currencies to effect cross border transactions. As a result, the Company is subject to the risk that fluctuations in foreign exchange rates between the dates that those transactions are entered into and their respective settlement dates will result in a foreign exchange gain or loss. When practicable, the Company endeavors to match assets and liabilities in the same currency on its balance sheet and those of its subsidiaries in order to reduce these risks. When appropriate, the Company enters into foreign currency contracts to hedge exposures arising from those transactions. The Company has elected not to prepare and maintain the documentation to qualify for hedge accounting treatment under ASC 815, "Derivatives and Hedging," and therefore, all gains and losses (realized or unrealized) are recognized in "Interest and other expense, net" in the condensed consolidated statements of operations and comprehensive loss. Depending on their fair value at the end of the reporting period, derivatives are recorded either in prepaid expenses and other current assets or in accrued liabilities on the condensed consolidated balance sheet.

The Company had \$75,483 and \$39,600 in notional foreign exchange contracts outstanding as of September 30, 2018 and December 31, 2017, respectively. The fair values of these contracts were not material.

The Company translates foreign currency balance sheets from each international businesses' functional currency (generally the respective local currency) to U.S. dollars at end-of-period exchange rates, and statements of earnings at average exchange rates for each period. The resulting foreign currency translation adjustments are a component of other comprehensive income (loss).

The Company does not hedge the fluctuation in reported revenue and earnings resulting from the translation of these international operations' results into U.S. dollars.

(7) Borrowings

Credit Facility

As of September 30, 2018, the Company had a \$150,000 revolving, unsecured credit facility (the "Credit Agreement") with a syndicate of banks, to be used for general corporate purposes and working capital needs. The Credit Agreement is scheduled to expire in October 2019. The Credit Agreement includes provisions for the issuance of letters of credit and swingline loans and contains certain restrictive covenants, which include the maintenance of a maximum consolidated total leverage ratio. The Company was in compliance with those covenants at September 30, 2018 and December 31, 2017. There were no outstanding borrowings as of September 30, 2018.

Capitalized Lease Obligations

The Company's capitalized lease obligations primarily include a lease agreement that was entered into during 2006 with respect to the Company's corporate headquarters located in Rock Hill, SC. The change in capitalized lease obligations, as presented in the Condensed Consolidated Balance Sheets, was due to the normal scheduled timing of payments.

(8) Pension Benefits

The components of the Company's pension cost recognized in the condensed consolidated statements of operations and comprehensive loss for the quarter and nine months ended September 30, 2018 and 2017 were as follows:

	Quarter Ended September 30,		Months Ended September		
	50,		30,		
(in thousands)	2018	2017	2018	2017	
Service cost	\$49	\$75	\$151	\$212	
Interest cost	69	72	212	205	
Amortization of actuarial loss	44	64	134	182	
Total periodic cost	\$162	\$211	\$497	\$599	

(9) Net Loss Per Share

The Company computes basic loss per share using net loss attributable to 3D Systems Corporation and the weighted average number of common shares outstanding during the applicable period. Diluted loss per share incorporates the additional shares issuable upon assumed exercise of stock options and the release of restricted stock and restricted stock units, except in such case when their inclusion would be anti-dilutive.

stoom units, choops in such case which then inclusion t				
	Quarter Ended September 30,		Nine Months Ended September 30,	
(in thousands, except per share amounts)	2018	2017	2018	2017
Numerator for basic and diluted net loss per share:				
Net loss attributable to 3D Systems Corporation	\$(11,550)	\$(37,670)	\$(41,369)	\$(56,057)
Denominator for basic and diluted net loss per share:				
Weighted average shares	112,534	111,697	112,095	111,467
Net loss per share - basic and diluted	\$(0.10)	\$(0.34)	\$(0.37)	\$(0.50)

For the quarters and nine months ended September 30, 2018 and 2017, the effect of dilutive securities, including non-vested stock options and restricted stock awards/units, was excluded from the denominator for the calculation of diluted net loss per share because the Company recognized a net loss for the period and their inclusion would be anti-dilutive. Dilutive securities excluded were 5,770 and 5,455 for the quarter and nine months ended September 30, 2018, respectively, compared to 2,909 and 2,712 for the quarter and nine months ended September 30, 2017, respectively.

(10) Fair Value Measurements

ASC 820, "Fair Value Measurements and Disclosures," defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy that requires an entity to maximize the use of observable inputs that may be used to measure fair value:

Level 1 - Quoted prices in active markets for identical assets or liabilities;

Level 2 - Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; or

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

For the Company, the above standard applies to cash equivalents and earnout consideration. The Company utilizes the market approach to measure fair value for its financial assets and liabilities. The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities.

Assets and liabilities measured at fair value on a recurring basis are summarized below:

Fair Value Measurements as of September 30, 2018 Level 1 Level Level (in thousands) **Total** Description Cash equivalents (a) \$8,920 \$ -\$--Earnout consideration (b) \$— \$ -\$1,073 \$1,073 Fair Value Measurements as of December 31, 2017 Level 1 $\frac{\text{Level Level}}{2}$ $\frac{3}{3}$ (in thousands) Description Cash equivalents $_{(a)}$ \$20,244 \$ -\$ \$20,244 Earnout consideration $_{(b)}$ \$ -\$ \$5,115 \$5,115 \$20,244 \$ _\$_ \$20,244

Cash equivalents include funds held in money market instruments and are reported at their current carrying value, which approximates fair value due to the short-term nature of these instruments and are included in cash and cash equivalents in the consolidated balance sheet.

The fair value of the earnout consideration, which is based on the present value of the expected future payments to be made to the sellers of the acquired businesses, was derived by analyzing the future performance of the acquired businesses using the earnout formula and performance targets specified in each purchase agreement and adjusting those amounts to reflect the ability of the acquired entities to achieve the stated targets. Given the significance of the unobservable inputs, the valuations are classified in Level 3 of the fair value hierarchy. The change in earnout consideration reflects a \$2,675 payment, partially offset by \$248 of accretion and adjustments of \$1,615.

The Company did not have any transfers of assets and liabilities between Level 1, Level 2 and Level 3 of the fair value measurement hierarchy during the quarter and nine months ended September 30, 2018.

In addition to the assets and liabilities included in the above table, certain of our assets and liabilities are to be initially measured at fair value on a non-recurring basis. This includes goodwill and other intangible assets measured at fair value for impairment assessment, in addition to redeemable noncontrolling interests. For additional discussion, refer to "Management's Discussion and Analysis of Financial Condition and Results of Operations – Critical Accounting Policies and Significant Estimates" in the Company's Form 10-K.

(11) Income Taxes

For the quarter and nine months ended September 30, 2018, the Company recorded expense of \$1,593 and \$6,086, respectively, resulting in effective tax rates of 16.0% and 17.4%, respectively. For the quarter and nine months ended September 30, 2017, the Company recorded expense of \$3,723 and \$6,831, respectively, resulting in effective tax rates of 11.1% and 14.1%, respectively. The difference between the statutory rate and the effective tax rate is driven from the impact of the change in valuation allowances that the Company has recorded in the US and other foreign jurisdictions for both quarters and nine months ended September 30, 2018 and 2017. Additionally, for 2018, the Company settled a tax audit with the French tax authorities, which resulted in additional tax expense and also contributed to the difference between the statutory rate and the effective tax rate for the nine months ended September 30, 2018.

In December 2017, the Tax Cuts and Jobs Act of 2017 (the "Act") was signed into law making significant changes to the Internal Revenue Code. Changes include, but are not limited to, a corporate tax rate decrease from 35% to 21% effective for tax years after December 31, 2017, the transition of U.S. international taxation from a worldwide tax system to a territorial system, and a one-time transition tax on the mandatory deemed repatriation of cumulative foreign earnings, as of December 31, 2017.

On December 22, 2017, Staff Accounting Bulletin No. 118 ("SAB 118") was issued to address the application of GAAP in situations when a registrant does not have the necessary information available, prepared, or analyzed (including computations) in reasonable detail to complete the accounting for certain income tax effects of the Act. As of December 31, 2017, the Company recorded provisional amounts, and additional work is still necessary for a more detailed analysis of the Company's deferred tax assets and liabilities and its historical foreign earnings as well as potential correlative adjustments. Any subsequent adjustment to these amounts will be recorded in the fourth quarter of 2018 when the analysis is complete.

As the Company's previously unremitted earnings have now been subjected to U.S. federal income tax, any repatriation of these earnings to the U.S. would not be expected to incur significant additional taxes related to such amounts. The Company continues to assert that its foreign earnings are indefinitely reinvested in our overseas operations, but in light of the Act, the Company is continuing to evaluate its position on that assertion.

Tax years 2003 through 2017 remain subject to examination by the U.S. Internal Revenue Service, with most of the years open to examination due to the generation and utilization of various tax credits. The Company files income tax returns (which are open to examination beginning in the year shown in parentheses) in Australia (2013), Belgium (2014), Brazil (2012), China (2015), France (2014), Germany (2014), India (2013), Israel (2013), Italy (2012), Japan (2012), Korea (2012), Mexico (2012), Netherlands (2012), Switzerland (2012), the United Kingdom (2016) and Uruguay (2012).

(12) Segment Information

The Company operates as one segment and conducts its business through various offices and facilities located throughout the Americas region (United States, Canada, Brazil, Mexico and Uruguay), EMEA region (Belgium, France, Germany, Israel, Italy, the Netherlands, Switzerland and the United Kingdom), and Asia Pacific region (Australia, China, India, Japan and Korea). The Company has historically disclosed summarized financial information for the geographic areas of operations as if they were segments in accordance with ASC 280, "Segment Reporting." Financial information concerning the Company's geographical locations is based on the location of the selling entity. Such summarized financial information concerning the Company's geographical operations is shown in the following tables:

(in thousands)	Quarter Ended September 30, 2018 2017		Nine Mon September 2018	uno Emaca
Revenue from unaffiliated customers:				
United States	\$81,282	\$75,402	\$250,023	\$234,195
Other Americas	873	3,534	4,918	8,300
EMEA	55,020	52,457	169,300	158,864
Asia Pacific	27,336	21,514	82,707	67,446
Total revenue	\$164,511	\$152,907	\$506,948	\$468,805
16				

(in thousands)			Quarter Ended September 30, 2018 2017		Nine Months Ended September 30, 2018 2017		
Revenue by class of products Materials Services Total revenue	luct and s	2	559,648 40,274 54,589	39,399 62,177		5,096 2,556	
Total revenue	Quarter	Ended Se		•	Ψ300,740 Ψ40	30,003	
	Intercompany Sales to						
(in thousands)		asEMEA	Asia Pacific	Total			
Americas EMEA Asia Pacific Total intercompany sales		6,939 15 \$22,494	1,551 923 \$7,362				
	Quarter Ended September 30, 2017 Intercompany Sales to						
(in thousands)		nsEMEA	Asia Pacific	Total			
Americas	\$554	\$11,764		\$17,708			
EMEA	16,057	4,286	985	21,328			
Asia Pacific	613	8	772	1,393			
Total intercompany sales							
		onths End	led Septer	mber 30,			
	2018 Intercompany Sales to						
		_	Asia				
(in thousands)		isEMEA	Pacific	Total			
Americas	\$1,521			3 \$64,588			
EMEA	51,471	-	-				
Asia Pacific Total intercompany sales	3,779 \$56,771	16 \$64.471	2,696 \$24,686	6,491 \$ \$ 145 029	?		
Total intercompany sales		onths Enc			•		
	2017	ontilis Enc	ica septe	moer 50,			
		npany Sal	les to				
(in thousands)	America	asEMEA	Asia Pacific	Total			
Americas	\$1,452	\$34,414	\$14,243	\$50,109			
EMEA	50,761	13,014	2,900	66,675			
Asia Pacific	1,492	165	2,921	4,578			
Total intercompany sales							
		uarter En			onths Ended		
(in they and a)		eptember 018	30, 2017	Septeml 2018			
(in thousands)(Loss) income from oper		010	2017	2010	2017		
Americas		(16.599)	\$(32.749	9) \$(50.12	2) \$(65,897)		
EMEA		86	(3,272) (2,948) 4,474		
Asia Pacific		,229	3,686	16,898	13,153		

(13) Commitments and Contingencies

The Company leases certain of its facilities and equipment under non-cancelable operating leases. For the quarter and nine months ended September 30, 2018, rent expense under operating leases was \$3,788 and \$12,288, respectively, compared to \$4,009 and \$11,461 for the quarter and nine months ended September 30, 2017, respectively.

Certain of the Company's acquisition agreements contain earnout provisions under which the sellers of the acquired businesses can earn additional amounts. The total liability recorded for these earnouts at September 30, 2018 and December 31, 2017 was \$1,073 and \$5,115, respectively. See Note 5.

Put Options

Owners of interests in a certain subsidiary have the right in certain circumstances to require the Company to acquire either a portion of or all of the remaining ownership interests held by them. The owners' ability to exercise any such "put option" right is subject to the satisfaction of certain conditions, including conditions requiring notice in advance of exercise. In addition, these rights cannot be exercised prior to a specified exercise date. The exercise of these rights at their earliest contractual date would result in obligations of the Company to fund the related amounts in 2019.

Management estimates, assuming that the subsidiary owned by the Company at September 30, 2018, performs over the relevant future periods at its forecasted earnings levels, that these rights, if exercised, could require the Company, in future periods, to pay approximately \$8,872 to the owners of such rights to acquire such ownership interests in the relevant subsidiary. This amount has been recorded as redeemable noncontrolling interests on the Consolidated Balance Sheet at September 30, 2018 and December 31, 2017. The ultimate amount payable relating to this transaction will vary because it is dependent on the future results of operations of the subject business.

Litigation

Securities and Derivative Litigation

The Company and certain of its former executive officers have been named as defendants in a consolidated putative stockholder class action lawsuit pending in the United States District Court for the District of South Carolina. The consolidated action is styled KBC Asset Management NV v. 3D Systems Corporation, et al., Case No. 0:15-cv-02393-MGL. The Amended Consolidated Complaint (the "Complaint"), which was filed on December 9, 2015, alleges that defendants violated the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and Rule 10b-5 promulgated thereunder by making false and misleading statements and omissions and that the former officers are control persons under Section 20(a) of the Exchange Act. The Complaint was filed on behalf of stockholders who purchased shares of the Company's common stock between October 29, 2013, and May 5, 2015 and seeks monetary damages on behalf of the purported class. On February 14, 2018, following mediation, the parties entered into a Stipulation of Settlement that provided for, among other things, payment of \$50,000 by the Company's insurance carriers and a mutual exchange of releases. The Stipulation of Settlement called for a dismissal of all claims against the Company and the individual defendants with prejudice following Court approval, a denial by defendants of any wrongdoing, and no admission of liability. On February 15, 2018, Lead Plaintiff filed an Unopposed Motion for Preliminary Approval of Class Action Settlement. On February 21, 2018, the Court entered an Order Preliminarily Approving Settlement and Providing for Notice. The Court held a final fairness hearing on June 25, 2018, and entered the Order and Final Judgment and Order Awarding Attorneys' Fees on the same day. The Company's insurance carriers have funded the entire settlement amount. The time for any party to appeal expired on July 25, 2018 and no appeals were filed. The matter is now concluded. At December 31, 2017 the Company's balance sheet reflected the entire settlement as a current liability with an offsetting receivable for related insurance proceeds.

Nine related derivative complaints have been filed by purported Company stockholders against certain of the Company's former executive officers and members of its Board of Directors. The Company is named as a nominal defendant in all nine actions. The derivative complaints are styled as follows: (1) Steyn v. Reichental, et al., Case No. 2015-CP-46-2225, filed on July 27, 2015 in the Court of Common Pleas for the 16th Judicial Circuit, County of York, South Carolina ("Steyn"); (2) Piguing v. Reichental, et al., Case No. 2015-CP-46-2396, filed on August 7, 2015 in the Court of Common Pleas for the 16th Judicial Circuit, County of York, South Carolina ("Piguing"); (3) Booth v. Reichental, et al., Case No. 15-692-RGA, filed on August 6, 2015 in the United States District Court for the District of Delaware; (4) Nally v. Reichental, et al., Case No. 15-cv-03756-MGL, filed on September 18, 2015 in the United States District Court for the District of South Carolina ("Nally"); (5) Gee v. Hull, et al., Case No. BC-610319, filed on February 17, 2016 in the Superior Court for the State of California, County of Los Angeles ("Gee"); (6) Foster v. Reichental, et al., Case No. 0:16-cv-01016-MGL, filed on April 1, 2016 in the United States District Court for the District of South Carolina ("Foster"); (7) Lu v. Hull, et al., Case No. BC629730, filed on August 5, 2016 in the Superior Court for the State of California, County of Los Angeles ("Lu"); (8) Howes v. Reichental, et al., Case No. 0:16-cv-2810-MGL, filed on August 11, 2016 in the

United States District Court for the District of South Carolina ("Howes"); and (9) Ameduri v. Reichental, et al., Case No. 0:16-cv-02995-MGL, filed on September 1, 2016 in the United States District Court for the District of South Carolina ("Ameduri"). Steyn and Piguing were consolidated into one action styled as In re 3D Systems Corp. Shareholder Derivative Litig., Lead Case No. 2015-CP-46-2225 in the Court of Common Pleas for the 16th Judicial Circuit, County of York, South Carolina. Gee and Lu were consolidated into one action styled as Gee v. Hull, et al., Case No. BC610319 in the Superior Court for the State of California, County of Los Angeles. Nally, Foster, Howes, and Ameduri were consolidated into one action in the United States District Court for the District of South Carolina with Nally as the lead consolidated case.

The derivative complaints allege claims for breach of fiduciary duty, abuse of control, gross mismanagement, waste of corporate assets and unjust enrichment and seek, among other things, monetary damages and certain corporate governance actions.

All of the derivative complaints listed above have been stayed.

The Company believes the claims alleged in the derivative lawsuits are without merit and intends to defend the Company and its officers and directors vigorously.

Ronald Barranco and Print3D Corporation v. 3D Systems Corporation, et. al.

On August 23, 2013, Ronald Barranco, a former Company employee, filed two lawsuits against the Company and certain officers in the United States District Court for the District of Hawaii. The first lawsuit ("Barranco I") is captioned Ronald Barranco and Print3D Corporation v. 3D Systems Corporation, 3D Systems, Inc., and Damon Gregoire, Case No. CV 13-411 LEK RLP, and alleges seven causes of action relating to the Company's acquisition of Print3D Corporation (of which Mr. Barranco was a 50% shareholder) and the subsequent employment of Mr. Barranco by the Company. The second lawsuit ("Barranco II") is captioned Ronald Barranco v. 3D Systems Corporation, 3D Systems, Inc., Abraham Reichental, and Damon Gregoire, Case No. CV 13-412 LEK RLP, and alleges the same seven causes of action relating to the Company's acquisition of certain website domains from Barranco and the subsequent employment of Barranco by the Company. Both Barranco I and Barranco II allege the Company breached certain purchase agreements in order to avoid paying Barranco additional monies pursuant to royalty and earn out provisions in the agreements. The Company and its officers timely filed responsive pleadings on October 22, 2013 seeking, inter alia, to dismiss Barranco I due to a mandatory arbitration agreement and for lack of personal jurisdiction and to dismiss Barranco II for lack of personal jurisdiction.

With regard to Barranco I, the Hawaii district court, on February 28, 2014, denied the Company's motion to dismiss and its motion to transfer venue to South Carolina for the convenience of the parties. However, the Hawaii court recognized that the plaintiff's claims are all subject to mandatory and binding arbitration in Charlotte, North Carolina. Because the Hawaii court was without authority to compel arbitration outside of Hawaii, the court ordered that the case be transferred to the district court encompassing Charlotte (the United States District Court for the Western District of North Carolina) so that court could compel arbitration in Charlotte. On April 17, 2014, Barranco I was transferred to the United States District Court for the Western District of North Carolina. Barranco filed a demand for arbitration on October 29, 2014. On December 9, 2014, the Company filed its answer to Barranco's demand for arbitration. On February 2, 2015, Barranco filed an amended demand that removed Mr. Gregoire as a defendant from the matter, and on February 4, 2015 the Company filed its amended answer. The parties selected an arbitrator and arbitration took place in September 2015 in Charlotte, North Carolina.

On September 28, 2015, the arbitrator issued a final award in favor of Barranco with respect to two alleged breaches of contract and implied covenants arising out of the contract. The arbitrator found that the Company did not commit fraud or make any negligent misrepresentations to Barranco. Pursuant to the award, the Company was directed to pay

approximately \$11,282, which includes alleged actual damages of \$7,254, fees and expenses of \$2,318 and prejudgment interest of \$1,710. The Company disagrees with the single arbitrator's findings and conclusions and believes the arbitrator's decision exceeds his authority and disregards the applicable law. As an initial response, the Company filed a motion for modification on September 30, 2015, based on mathematical errors in the computation of damages and fees. On October 16, 2015, the arbitrator issued an order denying the Company's motion and sua sponte issuing a modified final award in favor of Barranco in the same above-referenced amounts, but making certain substantive changes to the award, which changes the Company believes were improper and outside the scope of his authority and the American Arbitration Association rules. On November 20, 2015, the Company filed a motion to vacate the arbitration award in the federal court in the United States District Court for the Western District of North Carolina. Claimants also filed a motion to confirm the arbitration award. A hearing was held on the motions on September 29, 2016 in federal court in the Western District of North Carolina. The court requested supplemental briefing by the parties, which briefs were filed on July 11, 2016.

On August 31, 2016, the court issued an order granting in part and denying in part Barranco's motion to confirm the arbitration award and for judgment, entering judgment in the principal amount of the arbitration award and denying Barranco's motion for fees and costs. The court denied the Company's motion to vacate. On September 7, 2016, Barranco filed a motion to amend the

judgment to include prejudgment interest. The Company opposed that motion and the parties submitted briefing. On September 28, 2016 the Company filed a motion to alter or amend the judgment. Barranco opposed the motion and the parties submitted briefing. On May 18, 2017, the court issued an opinion and order denying the Company's motion to alter or amend and denying Barranco's motion for prejudgment interest. On September 16, 2017, the Company filed a notice of appeal with the United States Court of Appeals for the Fourth Circuit. The Company filed its Opening Brief and the Joint Appendix on August 28, 2017. Barranco filed its Opening Brief on September 11, 2017. The Company filed its Reply Brief on September 25, 2017.

On May 31, 2018, the Fourth Circuit affirmed the decision by unpublished per curiam opinion. On June 14, 2018, the Company timely filed Appellants' Petition for Rehearing and Rehearing En Banc. On June 15, 2018 the Fourth Circuit issued a Stay of Mandate Under Fed. R. App. P. 41(d)(1). The Petition for Rehearing and Rehearing En Banc was subsequently denied and on August 1, 2018, the Fourth Circuit issued its mandate, thereby returning jurisdiction to the District Court and ending the stay. On August 2, 2018, the Company filed its Motion for Setoff of Judgment and Memorandum in Support of Motion for Setoff of Judgment. Barranco filed a response agreeing that setoff was appropriate, but contested the amount. On August 3, 2018, the Company paid \$9,127 of the Judgment, net setoff. On August 7, 2018, Barranco filed a Notice of Motion and Motion to Enforce Surety Liability Against Berkley Insurance Co. ("Berkley") in the United States District Court for the Northern District of California, Barranco v. Berkley Insurance Co., Misc. Case No. 4:18-mc-80131-PJH, seeking entry of an order directing Berkley to pay Barranco \$1,720, which was the portion of the Requested Setoff that Barranco disputed. On September 5, 2018, Berkley filed a Motion to Dismiss for Improper Venue in the California Action, seeking dismissal and/or transfer of the Surety Motion to the North Carolina Action. On September 28, 2018, the parties filed a Consent Stipulation Resolving Motion for Setoff of Judgment, stipulating that subject only to vacatur or amendment reducing the Amended 3D Systems Judgment in Barranco's appeal to the 9th Circuit of the Hawaii action discussed below, the Amended 3D Systems Judgment in the amount of \$2,182 was setoff against the Barranco Judgment ("Stipulated Setoff"). The Stipulated Setoff was deemed to resolve the North Carolina Setoff Motion and the California Surety Motion. On September 28, Barranco withdrew the California Surety Motion, which was rendered moot by the agreed setoff made under the provisions of this Stipulation. On October 1, 2018, Berkley withdrew its Motion to Dismiss for Improper Venue pending in the California Action. The Company paid Barranco the \$101 balance remaining due on the North Carolina Judgment after the Stipulated Setoff.

With regard to Barranco II, the Hawaii district court, on March 17, 2014, denied the Company's motion to dismiss and its motion to transfer venue to South Carolina. However, the Hawaii court dismissed Count II in Barranco's complaint alleging breach of the employment agreement. The Company filed an answer to the complaint in the Hawaii district court on March 31, 2014. On November 19, 2014, the Company filed a motion for summary judgment on all claims which was heard on January 20, 2015. On January 30, 2015, the court entered an order granting in part and denying in part the Company's motion for summary judgment. The Order narrowed Barranco's claim for breach of contract and dismissed the claims for fraud and negligent misrepresentation. As a result, Messrs. Reichental and Gregoire were dismissed from the lawsuit. The case was tried to a jury in May 2016, and on May 27, 2016 the jury found that the Company was not liable for either breach of contract or breach of the implied covenant of good faith and fair dealing. Additionally, the jury found in favor of the Company on its counterclaim against Barranco and determined that Barranco violated his non-competition covenant with the Company. On July 5, 2017, the Court ordered a bench trial regarding causation and damages with respect to the equitable accounting on the Company's prevailing counterclaim against Barranco. The bench trial took place on November 20, 2017. The Court ordered the submission of proposed findings of fact and conclusions of law. The Company submitted its proposed Findings of Fact and Conclusions of Law on January 12, 2018. Barranco submitted his proposed findings on February 2, 2018. The Company submitted its Reply on February 16, 2018. On March 30, 2018, the Court entered Findings of Fact and Conclusions of Law and Order requiring Barranco to disgorge, and the Company recover, \$523, representing all but four months of the full amount paid to Barranco as salary during his employment with the Company as well as a portion of the up front and buyout payments made to Barranco in connection with the purchase of certain web domains. In addition, the Court

ordered Barranco to pay pre-judgment interest to the Company to be calculated beginning as of his first breach of the non-competition covenant in August 2011. Judgment entered thereafter on April 2, 2018.

As the prevailing party, the Company moved for recovery of its fees and costs. On June 15, 2018, the federal magistrate judge entered Findings and Recommendation to Grant in Part and Deny in Part Defendants 3D Systems Corporation and 3D System Inc.'s Motion for an Award of Attorneys' Fees, whereby it recommended that 3D Systems be awarded \$1,299 in attorneys' fees, \$349 for the amount of the prejudgment interest, and \$72 in non-taxable costs.

On April 19, 2018, Barranco filed a post-trial motion seeking to amend the findings and judgment. The Company opposed that motion. On April 30, 2018, Barranco filed a combined Rule 50 Motion for Judgment as a Matter of Law on the Company's counterclaim and Rule 59 Motion for a New Trial. The Company also opposed that Motion. On June 29, 2018, Barranco filed partial objections to the Fee Award Report and Recommendation. On July 9, 2018, the Company filed its Response opposing those partial objections. All post-trial motions are currently pending before the Court.

On May 10, 2018, the Company put Barranco on notice that it intended to exercise its right of setoff in regard to any liability it may be determined to have to Barranco. More specifically, the Company notified Barranco that it intended to set off the amounts determined due to it in the Hawaii litigation against any liability 3D Systems was determined to have in the North Carolina arbitration on appeal. As discussed above, the Company filed a Motion and Memo for Setoff on August 2, 2018 with the North Carolina court and exercised its right of setoff on August 3, 2018. On September 5, 2018, Barranco filed a Notice of Appeal of the Hawaii Action to the United States Court of Appeals for the Ninth Circuit. On September 13, 2018, the Hawaii District Court entered its Amended Judgment in a Civil Case, awarding 3D Systems a final amended judgment of \$2,182. On September 19, 2018, Barranco filed an Amended Notice of Appeal. The Setoff Motion was resolved by consent stipulation on September 28 as discussed above. Appellants' opening brief is due December 14. Appellee's Answering Brief is due January 14. The Company intends to defend the appeal vigorously.

Export Controls and Government Contracts Compliance Matter

In October 2017 the Company received an administrative subpoena from the Bureau of Industry and Security of the Department of Commerce ("BIS") requesting the production of records in connection with possible violations of U.S. export control laws, including with regard to its Quickparts.com, Inc. subsidiary. In addition, while collecting information responsive to the above referenced subpoena, the Company identified potential violations of the International Traffic in Arms Regulations ("ITAR") administered by the Directorate of Defense Trade Controls of the Department of State ("DDTC") and potential violations of the Export Administration Regulations administered by BIS. On June 8, 2018, the Company submitted voluntary disclosures to BIS and DDTC identifying numerous potentially unauthorized exports of technical data, which supplemented an initial notice of voluntary disclosure that the Company submitted to DDTC in February 2018. The Company is conducting an internal review of its export control, trade sanctions, and government contracting compliance risks and potential violations; implementing associated compliance enhancements; and cooperating with DDTC and BIS, as well as the U.S. Departments of Justice, Defense and Homeland Security. Although the Company cannot predict the ultimate resolution of these matters, the Company expects to incur significant legal costs and other expenses in connection with responding to the U.S. government agencies.

Throughout 2018, the Company has implemented and will continue to implement new compliance procedures to identify and prevent potential violations of export control laws, trade sanctions, and government contracting laws. As a result of these compliance enhancements, the Company has identified additional potential violations of the ITAR, and has submitted related voluntary disclosures to DDTC. As the Company continues to implement additional compliance enhancements, it may discover potential violations of export control laws, trade sanctions, and/or government contracting laws in the future, which may require disclosure to relevant agencies. If the Company identifies any additional potential violations, the Company will submit voluntary disclosures to the relevant agencies and cooperate with such agencies on any related investigations.

If the U.S. government finds that the Company has violated one or more export control laws, trade sanctions, or government contracting laws, the Company could be subject to various civil or criminal penalties. By statute, these penalties can include but are not limited to fines, which by statute may be significant, denial of export privileges, and suspension or debarment from participation in U.S. government contracts. The Company may also be subject to contract claims based upon such violations. Any assessment of penalties or other liabilities incurred in connection with these matters could harm the Company's reputation and customer relationships, create negative investor sentiment, and affect the Company's share value. In connection with any resolution, the Company may also be required to undertake additional remedial compliance measures and program monitoring. The Company cannot at this time predict when the U.S. government agencies will conclude their investigations or determine an estimated cost, if any, or range of costs, for any penalties, fines or other liabilities to third parties that may be incurred in connection with these matters.

Indemnification

In the normal course of business, the Company periodically enters into agreements to indemnify customers or suppliers against claims of intellectual property infringement made by third parties arising from the use of the Company's products. Historically, costs related to these indemnification provisions have not been significant, and the Company is unable to estimate the maximum potential impact of these indemnification provisions on its future results of operations.

To the extent permitted under Delaware law, the Company indemnifies its directors and officers for certain events or occurrences while the director or officer is, or was, serving at the Company's request in such capacity, subject to limited exceptions. The maximum potential amount of future payments the Company could be required to make under these indemnification obligations is unlimited; however, the Company has directors and officers insurance coverage that may enable the Company to recover future amounts paid, subject to a deductible and the policy limits. There is no assurance that the policy limits will be sufficient to cover all damages, if any.

(14) Accumulated Other Comprehensive Loss

The changes in the balances of accumulated other comprehensive loss by component are as follows:

	Foreign	Defined	Liquidation of	
	currency	benefit	non-US entity	
(in thousands)	translation	pension	and purchase of	Total
		1	non-controlling	
	adjustment	pian	interests	
Balance at December 31, 2017	\$(19,319)	\$(2,555)	\$ 338	\$(21,536)
Other comprehensive income (loss)	(14,491)	204	_	(14,287)
Amounts reclassified from accumulated other comprehensive loss	1,401	_		1,401
Balance at September 30, 2018	\$ (32,409)	\$(2,351)	\$ 338	\$(34,422)

Amounts reclassified out of accumulated other comprehensive loss are as follows:

 $\begin{array}{c} \text{Quarter Ended} \\ \text{September 30}, \\ \text{September 30}, \\ \text{(in thousands)} \\ \text{Currency translation adjustments:} \\ \text{Gain on dissolution} \\ \end{array} \begin{array}{c} \text{Nine Months} \\ \text{Ended} \\ \text{September 30}, \\ \text{2018} \\ \text{2017} \end{array} \\ \text{Statement of Operations Caption} \\ \text{Currency translation adjustments:} \\ \text{Gain on dissolution} \\ \end{array} \begin{array}{c} \text{Nine Months} \\ \text{Ended} \\ \text{September 30}, \\ \text{2018} \\ \text{2017} \end{array} \\ \text{Statement of Operations Caption} \\ \text{Currency translation adjustments:} \\ \text{Gain on dissolution} \\ \end{array} \begin{array}{c} \text{Nine Months} \\ \text{Supplember 30}, \\ \text{Statement of Operations Caption} \\ \text{Currency translation adjustments:} \\ \text{Currency translation adjustments:} \\ \text{Caption of the properties of the$

The amounts presented in the tables above are in other comprehensive loss and are net of taxes. For additional information about foreign currency translation, see Note 6.

(15) Noncontrolling Interests

As of September 30, 2018, the Company owned approximately 70% of the capital and voting rights of Robtec, a service bureau and distributor of 3D printing and scanning products in Brazil. Robtec was acquired on November 25, 2014.

As of September 30, 2018, the Company owned approximately 70% of the capital and voting rights of Easyway, a service bureau and distributor of 3D printing and scanning products in China. Approximately 65% of the capital and voting rights of Easyway were acquired on April 2, 2015, and an additional 5% of the capital and voting rights of Easyway were acquired on July 19, 2017 for \$2.3 million.

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

This discussion should be read in conjunction with the unaudited condensed consolidated financial statements and the notes thereto included in Item 1 (the "Financial Statements") of this Quarterly Report on Form 10-Q ("Form 10-Q"). We are subject to a number of risks and uncertainties that may affect our future performance that are discussed in greater detail in the sections entitled "Forward-Looking Statements" at the end of this Item 2 and that are discussed or referred to in Item 1A of Part II of this Form 10-Q.

Business Overview

3D Systems Corporation ("3D Systems" or the "Company" or "we" or "us") is a holding company incorporated in Delaware in 1993 that markets our products and services through subsidiaries in North America and South America (collectively referred to as "Americas"), Europe and the Middle East (collectively referred to as "EMEA") and the Asia Pacific region ("APAC"). We provide comprehensive 3D printing solutions, including 3D printers, materials, software, on demand manufacturing services and digital design tools. Our solutions support advanced applications in a wide range of industries and key verticals including healthcare, aerospace, automotive and durable goods. Our precision healthcare capabilities include simulation, Virtual Surgical Planning ("VSPTM"), and printing of medical and dental devices, models, surgical guides and instruments. Our experience and expertise have proven vital to our development of an ecosystem and end-to-end digital workflow which enable customers to optimize product designs, transform workflows, bring innovative products to market and drive new business models. As the originator of 3D printing and a shaper of future 3D solutions, for over 30 years we have been enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models.

Customers can use our 3D solutions to design and manufacture complex and unique parts, eliminate expensive tooling, produce parts locally or in small batches and reduce lead times and time to market. A growing number of customers are shifting from prototyping applications to also using 3D printing for production. We believe this shift will be further driven by our continued advancement and innovation of 3D printing solutions that improve durability, repeatability, productivity and total cost of operations.

Summary of Third Quarter 2018 Financial Results

Total consolidated revenue for the quarter ended September 30, 2018 increased by 7.6%, or \$11.6 million, to \$164.5 million, compared to \$152.9 million for the quarter ended September 30, 2017. These results reflect an increase in printers, materials, software, services and healthcare revenue, as discussed further below.

Healthcare revenue includes sales of products, materials and services for healthcare-related applications, including simulation, training, planning, anatomical models, surgical guides and instruments and medical and dental devices. For the quarter ended September 30, 2018, healthcare revenue increased by 13.9%, to \$53.1 million, and made up 32.2% of total revenue, compared to \$46.6 million, or 30.5% of total revenue, for the quarter ended September 30, 2017. The increase in healthcare revenue is driven by growth in products, including printers and materials.

For the quarter ended September 30, 2018, total software revenue from products and services increased by 7.5% to \$22.9 million, and made up 13.9% of total revenue, compared to \$21.3 million, or 14.0% of total revenue, for the quarter ended September 30, 2017.

Gross profit for the quarter ended September 30, 2018 increased by 33.0%, or \$19.3 million, to \$77.8 million, compared to \$58.5 million for the quarter ended September 30, 2017. Gross profit margin for the quarters ended September 30, 2018 and 2017 was 47.3% and 38.3%, respectively. Both gross profit and gross profit margin were negatively impacted in the prior year due to inventory adjustments of \$12.9 million related to product obsolescence as

we aligned our product portfolio with our strategy.

Operating expenses for the quarter ended September 30, 2018 decreased by 2.3%, or \$2.1 million, to \$88.8 million, compared to \$90.9 million for the quarter ended September 30, 2017. Selling, general and administrative expenses for the quarter ended September 30, 2018 decreased by 1.4%, or \$0.9 million, to \$65.6 million, compared to \$66.5 million for the quarter ended September 30, 2017, predominantly due to a reduction in outside service costs as we made progress with transformation projects; partially offset by higher personnel and marketing-related costs as we have launched and begin to ramp up new product sales during 2018, continued investment in IT infrastructure, and higher legal expenses. Research and development expenses for the quarter ended September 30, 2018 decreased by 4.9%, or \$1.2 million, to \$23.2 million, compared to \$24.4 million for the quarter ended September 30, 2017, as we reduced materials spend related to products which have been brought to market during 2018.

Our operating loss for the quarter ended September 30, 2018 was \$11.0 million, compared to an operating loss of \$32.3 million for the quarter ended September 30, 2017.

For the nine months ended September 30, 2018 and 2017, we used \$2.9 million and generated \$17.7 million of cash from operations, respectively, as further discussed below. In total, our unrestricted cash balance at September 30, 2018 and December 31, 2017, was \$92.1 million and \$136.3 million, respectively. Significant cash outflows during the nine months ended September 30, 2018 include investments in property, plant and equipment; increases in inventory in support of new products; and other working capital balances, including \$9.1 million paid for a previously accrued liability related to litigation.

Results of Operations

Comparison of revenue by geographic region

The following table sets forth changes in revenue by geographic region for the quarters ended September 30, 2018 and 2017.

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(Dollars in thousands)	Americas	3		EMEA		Asia Paci	fic	Total		
Revenue — third quarter 20	1\$78,936	51.6	%	\$52,457	34.3 %	\$21,514	14.1 %	\$152,907	100.0	%
Change in revenue:										
Volume	5,546	7.0	%	4,624	8.8 %	5,813	27.0 %	15,983	10.5	%
Price/Mix	(2,006)	(2.5))%	(1,301)	(2.5)%	514	2.4 %	(2,793)	(1.8)%
Foreign currency translation	(321)	(0.4))%	(760)	(1.4)%	(505)	(2.3)%	(1,586)	(1.1))%
Net change	3,219	4.1	%	2,563	4.9 %	5,822	27.1 %	11,604	7.6	%
Revenue — third quarter 20	1 \$ 82,155	49.9	%	\$55,020	33.4 %	\$27,336	16.6 %	\$164,511	100.0	%

Consolidated revenue increased 7.6%, predominantly driven by higher sales volume across all geographic regions, including recently commercialized new 3D printers, partially offset by an unfavorable impact of price/mix in the Americas and EMEA regions, which was driven by product mix and the unfavorable impact of foreign currency. The increased sales volume across all geographic regions is due to higher demand from healthcare customers as well as a range of customers across verticals. The negative price/mix impact across the Americas and EMEA regions is driven by higher sales of lower priced printer models and mix of materials sales.

For the quarters ended September 30, 2018 and 2017, revenue from operations outside the U.S. was 50.6% and 50.7% of total revenue, respectively.

The following table sets forth changes in revenue by geographic region for the nine months ended September 30, 2018 and 2017.

Table 2

(Dollars in thousands)	Americas		EMEA		Asia Paci	fic	Total	
Revenue — nine months 20	1\$242,495	51.7 %	\$158,864	33.9 %	\$67,446	14.4%	\$468,805	100.0 %
Change in revenue:								
Volume	28,458	11.7 %	8,640	5.4 %	10,239	15.2%	47,337	10.1 %
Price/Mix	(15,539)	(6.4)%	(7,517)	(4.7)%	2,868	4.3 %	(20,188)	(4.3)%
Foreign currency translation	(473)	(0.2)%	9,313	5.9 %	2,154	3.2 %	10,994	2.3 %
Net change	12,446	5.1 %	10,436	6.6 %	15,261	22.7%	38,143	8.1 %
Revenue — nine months 20	1 \$ 254,941	50.3 %	\$169,300	33.4 %	\$82,707	16.3%	\$506,948	100.0 %

Consolidated revenue increased 8.1%, predominantly driven by higher sales volume across all geographic regions, the favorable impact of price/mix in the Asia Pacific region, and the favorable impact of foreign currency; offset by an

unfavorable impact of price/mix in the Americas and EMEA regions. The increase in sales volume across all geographic regions is due to higher demand from healthcare customers as well as a range of customers across verticals. The shift in price/mix across the Americas and EMEA regions relates to the mix of sales, including higher sales of lower priced printer models and mix of materials sales. The shift in price/mix in the Asia Pacific region relates to the mix of sales, including higher sales of higher priced printer models and mix of materials sales.

For the nine months ended September 30, 2018 and 2017, revenue from operations outside the U.S. was 50.7% and 50.0% of total revenue, respectively.

Comparison of revenue by class

We earn revenue from the sale of products, materials and services. The products category includes 3D printers, healthcare simulators and digitizers, software licenses, 3D scanners and haptic devices. The materials category includes a wide range of materials to be used with our 3D printers, the majority of which are proprietary, as well as acquired conventional dental materials. The services category includes maintenance contracts and services on 3D printers and simulators, software maintenance, on demand solutions and healthcare services. Beginning in 2018, product warranty revenue and related expenses are included within the products category, and we have reclassified prior period amounts from services to products to conform to current year presentation.

Due to the relatively high price of certain 3D printers and a corresponding lengthy selling cycle and relatively low unit volume of the higher priced printers in any particular period, a shift in the timing and concentration of orders and shipments from one period to another can affect reported revenue in any given period. Revenue reported in any particular period is also affected by timing of revenue recognition under rules prescribed by U.S. generally accepted accounting principles ("GAAP").

In addition to changes in sales volumes, there are two other primary drivers of changes in revenue from one period to another: (1) the combined effect of changes in product mix and average selling prices, sometimes referred to as price and mix effects, and (2) the impact of fluctuations in foreign currencies. As used in this Management's Discussion and Analysis, the price and mix effects relate to changes in revenue that are not able to be specifically related to changes in unit volume.

The following table sets forth the change in revenue by class for the quarters ended September 30, 2018 and 2017.

Table 3								
(Dollars in thousands)	Products		Materials		Services		Total	
Revenue — third quarter 2	01\$51,331	33.5 %	\$39,399	25.8 %	\$62,177	40.7 %	\$152,907	100.0 %
Change in revenue:								
Volume	10,843	21.1 %	2,176	5.5 %	2,964	4.8 %	15,983	10.5 %
Price/Mix	(1,764)	(3.4)%	(1,029)	(2.6)%	_	%	(2,793)	(1.8)%
Foreign currency translation	on (762)	(1.5)%	(272)	(0.7)%	(552)	(0.9)%	(1,586)	(1.1)%
Net change	8,317	16.2 %	875	2.2 %	2,412	3.9 %	11,604	7.6 %
Revenue — third quarter 2	01 \$ 59,648	36.3 %	\$40,274	24.5 %	\$64,589	39.3 %	\$164,511	100.0 %

Consolidated revenue increased 7.6%, predominantly driven by higher sales volume across all revenue categories, including the impact of new printers launched in 2018, partially offset by a shift in sales mix which impacted average selling price for both products and materials as well as the unfavorable impact of foreign currency.

Products revenue increased due to higher demand from healthcare and a wide range of other verticals and across our portfolio, including the recently commercialized new products; partially offset by changes in product mix which impacted average selling prices, including the impact of higher sales of lower priced printers, and the unfavorable impact of foreign currency. For the quarters ended September 30, 2018 and 2017, revenue from printers contributed \$34.5 million and \$29.4 million, respectively. Software revenue included in the products category, including scanners and haptic devices, contributed \$12.0 million and \$10.6 million for the quarters ended September 30, 2018 and 2017, respectively.

Materials revenue increased due to higher sales volume, offset by the unfavorable impact of mix of sales and the unfavorable impact of foreign currency.

Services revenue increased due to higher sales volume, partially offset by the unfavorable impact of foreign currency translation. For the quarters ended September 30, 2018 and 2017, revenue from on demand manufacturing services contributed \$26.3 million and \$27.2 million, respectively. For the quarters ended September 30, 2018 and 2017, software services revenue contributed \$11.0 million and \$10.7 million, respectively.

The following table sets forth the change in revenue by class for the nine months ended September 30, 2018 and 2017.

Table 4									
(Dollars in thousands)	Products		Materials		Services		Total		
Revenue — nine months 20	1\$160,153	34.2 %	\$126,096	26.9~%	\$182,556	38.9%	\$468,805	100.0	%
Change in revenue:									
Volume	32,823	20.5 %	10,176	8.1 %	4,338	2.4 %	47,337	10.1	%
Price/Mix	(8,567)	(5.3)%	(11,621)	(9.2)%		%	(20,188)	(4.3)%
Foreign currency translation	3,607	2.3 %	3,486	2.8 %	3,901	2.1 %	10,994	2.3	%
Net change	27,863	17.5 %	2,041	1.7 %	8,239	4.5 %	38,143	8.1	%
Revenue — nine months 20	1\$188,016	37.1 %	\$128,137	25.3 %	\$190,795	37.6%	\$506,948	100.0	%

Consolidated revenue increased 8.1%, predominantly driven by higher sales volume across all revenue categories and the favorable impact of foreign currency, partially offset by a shift in sales mix which impacted average selling price for both products and materials.

Products revenue increased due to higher demand from customers from a range of verticals, including healthcare customers, and across our portfolio, including contributions from new products during the third quarter, and the favorable impact of foreign currency, partially offset by changes in product mix which impacted average selling prices, including the impact of higher sales of lower priced printers. For the nine months ended September 30, 2018 and 2017, revenue from printers contributed \$113.0 million and \$88.5 million, respectively. Software revenue included in the products category, including scanners and haptic devices, contributed \$36.5 million and \$33.2 million for the nine months ended September 30, 2018 and 2017, respectively.

Materials revenue increased due to higher sales volume and the favorable impact of foreign currency, offset by a change in sales mix which negatively impacted price/mix.

Services revenue increased due to higher sales volume as well as the favorable impact of foreign currency translation. For the nine months ended September 30, 2018 and 2017, revenue from on demand manufacturing services contributed \$79.3 million and \$78.1 million, respectively. For the nine months ended September 30, 2018 and 2017, software services revenue contributed \$33.0 million and \$32.5 million, respectively.

Gross profit and gross profit margins

The following tables set forth gross profit and gross profit margins for the quarters and nine months ended September 30, 2018 and 2017.

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Tuote o	Quarter 1	uarter Ended September 30,										
	2018		2U1 /		Change in Profit	n Gross	Change in Gross Profit Margin					
(Dollars in thousands)	Gross Profit	Gross Profit Margin	Gross Profit	Gross Profit Margin	\$	%	Percentage Points					
Products	17,522	29.4 %	(451)	(0.9)%	17,973	3985 %	30.3 3443 %					
Materials	27,956	69.4 %	28,519	72.4 %	(563)	(2.0)%	(3.0) (4.1)%					
Services Total	32,332 \$77,810	50.1 % 47.3 %	30,454 \$58,522		1,878 \$19,288		1.1 2.2 % 9.0 23.6 %					

The increase in total consolidated gross profit is due to the increase in product sales, primarily higher sales of printers. Additionally, an inventory adjustment in the quarter ended September 30, 2017 had a significantly negative impact on margins in the prior year. The 2017 inventory adjustment related primarily to legacy plastics printers, refurbished and used metals printers and parts that had shown little to no use over extended periods.

Products gross profit margin improved primarily from higher sales volume which improved absorption of overhead costs. Additionally, 2017 included an inventory adjustment expense of \$12.9 million related to discontinued products and obsolete parts. Materials gross profit margin decreased due to the mix of sales during the third quarter. A favorable mix of sales towards higher gross profit margin service offerings, including healthcare, drove Services gross profit margin higher. On demand manufacturing services gross profit margin decreased to 38.3% for the quarter ended September 30, 2018 compared to 40.9% for the quarter ended September 30, 2017.

Table 6

Nine Months Ended September 30,									
	2018	2017			Change in Profit	n Gross	Change in Gross Profit Margin		
(Dollars in thousands)	Gross Profit	Gross Profit Margin	Gross Profit	Gross Profit Margin	\$	%	Percentage Points		
Products	57,239	30.4 %	33,886	21.2 %	23,353	68.9 %	9.3 43.9 %		
Materials	90,852	70.9 %	91,753	72.8 %	(901)	(1.0)%	(1.9) (2.6)%		
Services	93,750	49.1 %	93,742	51.3 %	8	%	(2.2) (4.3)%		
Total	\$241,841	47.7 %	\$219,381	46.8 %	\$22,460	10.2 %	0.9 1.9 %		

The increase in total consolidated gross profit is due to the increase in product sales, primarily higher sales of printers. In addition, the inventory adjustment discussed above had a negative impact on margins in comparable period for prior year.

Products gross profit margin improved primarily from higher sales volume which bolstered absorption of overhead costs. The inventory adjustment noted above primarily impacted Product margins in 2017. Materials gross profit margin decreased due to the mix of sales. Services gross profit margin was lower as a result of expanding our services operations and support as well as from lower gross profit margins for on demand manufacturing services as we continued to make investments, including facility upgrades. On demand manufacturing services gross profit margin decreased to 38.8% for the nine months ended September 30, 2018 compared to 43.3% for the nine months ended September 30, 2017.

Operating expenses

The following tables sets forth the components of operating expenses for the quarters and nine months ended September 30, 2018 and 2017.

Table 7

	Quarter Ended September 30,							
			2017			Change		
(Dollars in thousands)	Amount	% Reven	iue	Amount	% Rever	nue	\$	%
Selling, general and administrative expenses	65,600	39.9	%	66,497	43.5	%	(897) (1.3)%
Research and development expenses	23,194	14.1	%	24,360	15.9	%	(1,166) (4.8)%
Total operating expenses	\$88,794	54.0	%	\$90,857	59.4	%	\$(2,063	3) (2.3)%

Total operating expenses decreased for the quarter ended September 30, 2018 as compared to the quarter ended September 30, 2017 due to both a decrease in selling, general and administrative expenses and research and development expenses.

Selling, general and administrative expenses decreased due to a reduction in outside service costs as we made progress with transformation projects; partially offset by higher personnel and marketing-related costs as we have launched and begin to ramp up new product sales during 2018, continued investment in IT infrastructure, and higher legal expenses.

Research and development expenses decreased due to a reduced materials spend related to products which have been brought to market during 2018 as well as a reduction in outside services costs, partially offset by increased investment in our workforce.

Table 8

	Nine Months Ended September 30,								
	2018			2017			Change		
(Dollars in thousands)	Amount	%		Amount	%		¢	%	
(Donars in thousands)	Amount	Revenue		Amount	Revenue		Ф	70	
Selling, general and administrative expenses	206,225	40.7	%	195,990	41.8	%	10,235	5.2%	
Research and development expenses	71,788	14.2	%	71,661	15.3	%	127	0.2%	
Total operating expenses	\$278,013	54.8	%	\$267,651	57.1	%	\$10,362	3.9%	

Total operating expenses increased for the nine months ended September 30, 2018 as compared to the nine months ended September 30, 2017 due to higher selling, general and administrative expenses while research and development expenses remained flat.

Selling, general and administrative expenses increased due to additional personnel and marketing-related costs incurred as we have launched and begin to ramp up new product sales during 2018, continued investment in IT infrastructure, and higher legal expenses; partially offset by a reduction in outside services costs.

Research and development expenses remained flat as our increased investment in our workforce was offset by a reduction in outside services costs and a reduced materials spend related to products which have been brought to market during 2018.

Loss from operations

The following table sets forth (loss) income from operations by geographic region for the quarters and nine months ended September 30, 2018 and 2017.

Table 9

	Quarter Er	nded	Nine Months Ended			
	September	30,	September 30,			
(Dollars in thousands)	2018	2017	2018	2017		
(Loss) income from operations:						
Americas	(16,599)	(32,749)	(50,122)	(65,897)		
EMEA	386	(3,272)	(2,948)	4,474		
Asia Pacific	5,229	3,686	16,898	13,153		
Total	\$(10,984)	\$(32,335)	\$(36,172)	\$(48,270)		

The decrease in operating loss for the quarter and nine months ended September 30, 2018 as compared to the quarter and nine months ended September 30, 2017 was driven by increased product sales and the negative impact of the inventory adjustment to 2017. In addition, we experienced lower operating expenses in the quarter ended September 30, 2018 See "Comparison of revenue by geographic region," "Gross profit and gross profit margins" and "Operating expenses" above.

Interest and other income (expense), net

The following table sets forth the components of interest and other (expense) income, net, for the quarters and nine months ended September 30, 2018 and 2017.

Table 10

	Quarter Ended September 30,		Nine Months Ended September 30,	
(Dollars in thousands)	2018	2017	2018	2017
Interest and other income (expense), net:				
Interest income	180	227	633	555
Foreign exchange gain (loss)	1,035	(822) 2,888	712
Interest expense	(220)	(237) (668)	(699)
Other income (expense), net	32	(425) (1,718)	(691)
Total interest and other income (expense), net	\$1,027	\$(1,257	1) \$1,135	\$(123)

During the quarter ended September 30, 2018, we saw a favorable impact from foreign exchange which primarily drove the improvement from the quarter ended September 30, 2017. The increase for the nine months ended September 30, 2018 compared to the nine months ended September 30, 2017 was driven by favorable foreign currency impacts offset by a \$1.4 million unfavorable adjustment to the fair value of certain cost method investments in the first quarter of 2018.

Net loss attributable to 3D Systems

The following tables set forth the primary components of net loss attributable to 3D Systems for the quarters and nine months ended September 30, 2018 and 2017.

Table 11

14010 11			
	Quarter Ended		
	September 30, 2018		
(Dollars in thousands)	2018 2017 Change		
Operating loss	\$(10,984) \$(32,335) \$21,351		
Other non-operating items:			
Interest and other income (expense), net	1,027 (1,257) 2,284		
Benefit (provision) for income taxes	(1,593) (3,723) 2,130		
Net loss	(11,550) (37,315) 25,765		
Less: net income attributable to noncontrolling interests	— 355 (355)		
Net loss attributable to 3D Systems	\$(11,550) \$(37,670) \$26,120		
Table 12			
	Nina Months Endad		

Nine Months Ended		
September 30,		
2018 2017 Change		
\$(36,172) \$(48,270) \$12,098		
1,135 (123) 1,258		
(6,086) (6,831) 745		
(41,123) (55,224) 14,101		
246 833 (587)		
\$(41,369) \$(56,057) \$14,688		

The decrease in net loss for the quarter and nine months ended September 30, 2018 as compared to the quarter and nine months ended September 30, 2017 was primarily driven by increased sales volumes and lower costs which

include the absence of the 2017 inventory adjustment. See "Gross profit and gross profit margins" and "Operating expenses" above.

Liquidity and Capital Resources

Table 13

			Change		
(Dollars in thousands)	Septembe 30, 2018	rDecember 31, 2017	\$	%	
Cash and cash equivalents	\$92,093	\$136,344	\$(44,251)	(32.5)	5)%
Accounts receivable, net	127,092	129,879	(2,787)	(2.1)%
Inventories	128,164	103,903	24,261	23.3	%
	347,349	370,126	(22,777)		
Less:					
Current portion of capitalized lease obligations	651	644	7	1.1	%
Accounts payable	61,556	55,607	5,949	10.7	%
Accrued and other liabilities	61,676	65,899	(4,223)	(6.4)%
	123,883	122,150	1,733		
Operating working capital	\$223,466	\$247,976	\$(24,510)	(9.9)%

We assess our liquidity in terms of our ability to generate cash to fund our operating, investing and financing activities. In doing so, we review and analyze our current cash on hand, the number of days our sales are outstanding, inventory turns, capital expenditure commitments and accounts payable turns. Our cash requirements primarily consist of funding of working capital and funding of capital expenditures.

We believe our existing cash and cash equivalents will be sufficient to satisfy our working capital needs, capital expenditures, outstanding commitments and other liquidity requirements associated with our existing operations in the foreseeable future, or to consummate significant acquisitions of other businesses, assets, products or technologies. However, it is possible that, in the future, we may need to raise additional funds to finance our activities. If needed, we may be able to raise such funds by issuing equity or debt securities to the public or selected investors, by borrowing from financial institutions, drawing down on our credit facility, or selling assets.

Cash held outside the U.S. at September 30, 2018 was \$64.8 million, or 70.4% of total cash and equivalents, compared to \$88.9 million, or 65.2% of total cash and equivalents at December 31, 2017. As our previously unremitted earnings have been subjected to U.S. federal income tax, we expect any repatriation of these earnings to the U.S. would not incur significant additional taxes related to such amounts. However, our estimates are provisional and subject to further analysis. We continue to assert that our foreign earnings are indefinitely reinvested in our overseas operations, but in light of the recent tax legislation, we are continuing to evaluate our position on that assertion. Cash equivalents are comprised of funds held in money market instruments and are reported at their current carrying value, which approximates fair value due to the short term nature of these instruments. We strive to minimize our credit risk by investing primarily in investment grade, liquid instruments and limit exposure to any one issuer depending upon credit quality. See "Cash flow", "Credit facilities" and "Capitalized lease obligations" below.

Days' sales outstanding was 71 at September 30, 2018 compared to 73 days at December 31, 2017 while accounts receivable more than 90 days past due increased to 10.4% of gross receivables at September 30, 2018, from 9.1% at December 31, 2017. We review specific receivables periodically to determine the appropriate reserve for accounts receivable.

The majority of our inventory consists of finished goods, including products, materials and service parts. Inventory also consists of raw materials and spare parts for the in-house assembly and support service products. We outsource the assembly of certain 3D printers; therefore, we generally do not hold most parts for the assembly of these printers in inventory. Inventory balances may fluctuate during cycles of new product launch, commercialization and timing of

ramp of production and sales of products.

The changes that make up the other components of working capital not discussed above resulted from the ordinary course of business. Differences between the amounts of working capital item changes in the cash flow statement and the balance sheet changes for the corresponding items are primarily the result of foreign currency translation adjustments.

Cash flow

The following tables set forth components of cash flow for the nine months ended September 30, 2018 and 2017.

Table 14

	Nine Months Ended	
	September 30,	
(Dollars in thousands)	2018	2017
Net cash (used in) provided by operating activities	\$(2,931)	\$17,676
Net cash used in investing activities	(29,550)	(60,567)
Net cash used in financing activities	(8,906)	(7,997)
Effect of exchange rate changes on cash	(2,417)	4,273
Net decrease in cash, cash equivalents and restricted cash	\$(43,804)	\$(46,615)

Cash flow from operations

Table 15

	Nine Months Ended	
	September 30,	
(Dollars in thousands)	2018	2017
Net loss	\$(41,123)	\$(55,224)
Non-cash charges	66,869	83,408
Changes in working capital and all other operating assets	(28,677)	(10,508)
Net cash (used in) provided by operating activities	\$(2,931)	\$17,676

Cash used in operating activities for the nine months ended September 30, 2018 was \$2.9 million and cash provided by operating activities for the nine months ended September 30, 2017 was \$17.7 million. Excluding non-cash charges, net income provided cash of \$25.7 million for the nine months ended September 30, 2018 and \$28.2 million for the nine months ended September 30, 2017. Non-cash charges generally consist of depreciation, amortization, and stock-based compensation.

Working capital requirements used cash of \$28.7 million for the nine months ended September 30, 2018 and \$10.5 million for the nine months ended September 30, 2017. In the nine months ended September 30, 2018, cash outflows resulted from increases in inventory, in support of new product commercialization; an increase in prepaid expenses; and a decrease in accrued and other current liabilities, as we paid a litigation settlement which was previously accrued. These outflows were partially offset by an increase in accounts payable and a decrease in accounts receivable. In the nine months ended September 30, 2017, cash outflows were driven primarily by inventory purchases.

Cash flow from investing activities

Table 16

	Nine Months Ended September 30,	
(Dollars in thousands)	2018	2017
Purchases of property and equipment	\$(28,323)	\$(21,072)
Additions to license and patent costs	(740)	(875)
Cash paid for acquisitions, net of cash assumed	_	(36,541)
Other investing activities	(500)	(2,350)
Proceeds from disposition of property and equipment	9	271

Net cash used in investing activities

\$(29,550) \$(60,567)

The primary outflow of cash relates to investments in property, plant and equipment as we have invested in infrastructure, customer innovation centers, and on-demand manufacturing services. In 2017 we acquired Vertex, a dental materials company, for an aggregate purchase price of \$34.3 million, net of cash acquired.

Cash flow from financing activities

Table 17

	Nine Months Ended September	
	30,	
(Dollars in thousands)	2018 2017	
Payments on earnout consideration	\$(2,675) \$(3,206)	
Payments related to net-share settlement of stock-based compensation	(5,723) (4,494)	
Repayment of capital lease obligations	(508) (297)	
Net cash used in financing activities	\$(8,906) \$(7,997)	

Cash used in financing activities was \$8.9 million and \$8.0 million for the nine months ended September 30, 2018 and 2017, respectively. The primary outflows of cash relate to the settlement of equity-based compensation and payments on earnout provisions related to a prior acquisitions.

We may issue additional securities from time to time as necessary to provide flexibility to execute our growth strategy. No securities were issued for financing purposes during the nine months ended September 30, 2018 and 2017.

Contractual commitments and off-balance sheet arrangements

Credit facilities

In October 2014, we entered into a \$150.0 million five-year revolving, unsecured credit facility. Subject to certain terms and conditions contained in the agreement, we may, at our option, request an increase in the aggregate principal amount available under the credit facility by an additional \$75.0 million. As of September 30, 2018 and December 31, 2017, there was no outstanding balance on the credit facility. The credit facility contains customary covenants, some of which require us to maintain certain financial ratios that determine the amounts available and terms of borrowings and events of default. We were in compliance with all covenants at both September 30, 2018 and December 31, 2017. See Note 7.

Capitalized lease obligations

Our capitalized lease obligations include a lease agreement that we entered into during 2006 with respect to our Rock Hill, SC facility, in addition to other lease agreements assumed through acquisitions. In accordance with ASC 840, "Leases," we are considered an owner of the properties, therefore, we have recorded these amounts in our consolidated balance sheet with a corresponding capitalized lease obligation in the liabilities section of the consolidated balance sheet. Our outstanding capitalized lease obligations carrying value at September 30, 2018 and December 31, 2017 was \$7.2 million and \$7.7 million, respectively.

Redeemable noncontrolling interests

The minority interest shareholders of a certain subsidiary have the right to require us to acquire either a portion of or all ownership interest under certain circumstances pursuant to a contractual arrangement, and we have a similar call option under the same contractual terms. The amount of consideration under the put and call rights is not a fixed amount, but rather is dependent upon various valuation formulas and on future events, such as revenue and gross margin performance of the subsidiary through the date of exercise, as described in Note 15 to the condensed consolidated financial statements. Management estimates, assuming that the subsidiary owned by us at September 30,

2018 performs over the relevant future periods at its forecasted earnings levels, that these rights, if exercised, could require us in a future period to pay a maximum amount of approximately \$8.9 million to the owners of such put rights. This amount has been recorded as redeemable noncontrolling interests on the balance sheet at September 30, 2018.

Other contractual arrangements

We lease certain of our facilities and equipment under non-cancelable operating leases. For the quarter and nine months ended September 30, 2018, rent expense under operating leases was \$3.8 million and \$12.3 million, respectively, compared to \$4.0 million and \$11.5 million for the quarter and nine months ended September 30, 2017, respectively.

Certain of our acquisition purchase agreements contain earnout payment provisions under which the sellers of the acquired businesses can earn additional amounts. The total amount of liabilities recorded for these earnouts is \$1.1 million and \$5.1 million at September 30, 2018 and December 31, 2017, respectively.

Off-balance sheet arrangements

We have no off-balance sheet arrangements and do not utilize any "structured debt," "special purpose," or similar unconsolidated entities for liquidity or financing purposes.

Recent Accounting Pronouncements

Refer to Note 1 - Basis of Presentation of the Notes to Financial Statements (Part I, Item 1 of this Form 10-Q) for further discussion.

Critical Accounting Policies and Significant Estimates

Our condensed consolidated financial statements are prepared in accordance with GAAP. The preparation of these condensed consolidated financial statements requires us to make certain estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, costs and expenses, and related disclosures. On an ongoing basis, we evaluate our estimates and assumptions. Our actual results may differ from these estimates under different assumptions or conditions.

Except for the accounting policies related to revenue recognition that were updated as a result of adopting ASC Topic 606, there have been no changes to our critical accounting policies and estimates described in the Annual Report on Form 10-K for the year ended December 31, 2017, filed with the Securities and Exchange Commission ("SEC") on March 14, 2018, that have had a material impact on our condensed consolidated financial statements and related notes.

Forward-Looking Statements

Certain statements made in this Form 10-Q that are not statements of historical or current facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from historical results or from any future results expressed or implied by such forward-looking statements. In many cases, you can identify forward-looking statements by terms such as "believes," "belief," "expects," "estimates," "intends," "anticipates," or "plans" or the negative of these terms or other comparable terminology.

Forward-looking statements are based upon management's beliefs, assumptions and current expectations concerning future events and trends, using information currently available, and are necessarily subject to uncertainties, many of which are outside our control. Although we believe that the expectations reflected in the forward-looking statements are reasonable, forward-looking statements are not, and should not be relied upon as a guarantee of future performance or results, nor will they necessarily prove to be accurate indications of the times at or by which any such performance or results will be achieved. A number of important factors could cause actual results to differ materially from those indicated by the forward-looking statements. These factors include without limitation:

competitive industry pressures;

our ability to deliver products that meet changing technology and customer needs;

our ability to identify strategic acquisitions, to integrate such acquisitions into our business without disruption and to realize the anticipated benefits of such acquisitions;

impact of future write-off or write-downs of intangible assets;

our ability to acquire and enforce intellectual property rights and defend such rights against third party claims;

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our ability to protect our intellectual property rights and confidential information, including our digital content, from third-party infringers or unauthorized copying, use or disclosure;

failure of our information technology infrastructure or inability to protect against cyber-attack;

our ability to generate net cash flow from operations;

our ability to obtain additional financing on acceptable terms;

impact of global economic, political and social conditions and financial markets on our business;

fluctuations in our gross profit margins, operating income or loss and/or net income or loss;

our ability to efficiently conduct business outside the U.S.;

our dependence on our supply chain for components and sub-assemblies used in our 3D printers and other products and for raw materials used in our print materials;

our ability to manage the costs and effects of litigation, investigations or similar matters involving us or our subsidiaries;

product quality problems that result in decreased sales and operating margin, product returns, product liability, warranty or other claims;

our ability to retain our key employees and to attract and retain new qualified employees, while controlling our labor

our exposure to product liability claims and other claims and legal proceedings;

disruption in our management information systems for inventory management, distribution, and other key functions; compliance with U.S. and other anti-corruption laws, data privacy laws, trade controls, economic sanctions, and similar laws and regulations;

changes in, or interpretation of, tax rules and regulations; and

compliance with, and related expenses and challenges concerning, conflict-free minerals regulations; and the other factors discussed in the reports we file with or furnishes to the SEC from time to time, including the risks and important factors set forth in additional detail in "Risk Factors" in Part I, Item 1A of our Form 10-K filed with the SEC.

Certain of these and other factors are discussed in more detail in "Item 1A. Risk Factors" of our Form 10-K. Readers are cautioned not to place undue reliance on these forward-looking statements. The forward-looking statements included herein are made only as of the date of this Form 10-Q and we undertake no obligation to publicly update or review any forward-looking statement made by us or on our behalf, whether as a result of new information, future developments, subsequent events or circumstances or otherwise. All subsequent written or oral forward-looking statements attributable to us or individuals acting on our behalf are expressly qualified in their entirety by the cautionary statements referenced above.

Item 3. Quantitative and Qualitative Disclosures about Market Risk.

For a discussion of market risks at December 31, 2017, refer to Item 7A, "Quantitative and Qualitative Disclosures about Market Risk," in our Form 10-K. During the first nine months of 2018, there were no material changes or developments that would materially alter the market risk assessment performed as of December 31, 2017.

Item 4. Controls and Procedures.

Evaluation of disclosure controls and procedures

As of September 30, 2018, we carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934, as amended (the "Exchange Act")) pursuant to Rules 13a-15 and 15d-15 under the Exchange Act. These controls and procedures were designed to provide reasonable assurance that the information required to be disclosed in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, in a manner to allow timely decisions regarding required disclosures. Based on this evaluation, including an evaluation of the rules referred to above in this Item 4, management has concluded that our disclosure controls and procedures were effective as of September 30, 2018.

Changes in Internal Controls over Financial Reporting

There were no material changes in our internal controls over financial reporting during the period covered by this Form 10-Q that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II — OTHER INFORMATION

Item 1. Legal Proceedings.

The information set forth in "Litigation" and "Export Compliance Matter" in Note 13 – Commitments and Contingencies to the Financial Statements in Part I, Item 1 of this Form 10-Q is incorporated herein by reference.

Item 1A. Risk Factors.

There have been no material changes from the risk factors as previously disclosed in our Form 10-K.

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

Recent Issuances of Unregistered Securities

None.

Issuer Purchases of Equity Securities

We did not repurchase any of our equity securities during the quarter ended September 30, 2018, except for unvested restricted stock awards repurchased or forfeited pursuant to our 2004 and 2015 Incentive Stock Plans.

Maximum

	Total number of shares (or units) purchased	paid per share	purchased as part of	number (or approximate dollar value) of shares (or units) that may yet be purchased under the plans or programs
January 1, 2018 - January 31, 2018	12,433	9.69		
February 1, 2018 - February 28, 2018	98,456	9.11		
March 1, 2018 - March 31, 2018	3,966	11.51		
April 1, 2018 - April 30, 2018	29,165	11.14		
May 1, 2018 - May 31, 2018	48,711	12.66		_
June 1, 2018 - June 30, 2018	1,990	13.60		
July 1, 2018 - July 31, 2018	113,978	13.09	_	_
August 1, 2018 - August 31, 2018	121,424	18.93	_	_
September 1, 2018 - September 30, 2018	6,449	18.69		
	436,572	(a) 13.61	(b)—	

⁽a) Reflects shares of common stock surrendered to the Company for payment of tax withholding obligations in connection with the vesting of restricted stock.

⁽b) The average price paid reflects the average market value of shares withheld for tax purposes.

Item 6. Exhibits.

- 3.1 Certificate of Incorporation of Registrant. (Incorporated by reference to Exhibit 3.1 to Form 8-B filed on August 16, 1993, and the amendment thereto, filed on Form 8-B/A on February 4, 1994.)
- Amendment to Certificate of Incorporation filed on May 23, 1995. (Incorporated by reference to Exhibit 3.2 to Registrant's Registration Statement on Form S-2/A, filed on May 25, 1995.)
- Certificate of Amendment of Certificate of Incorporation filed with Secretary of State of Delaware on May 19, 2004. (Incorporated by reference to Exhibit 3.1 of the Registrant's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2004, filed on August 5, 2004.)
- Certificate of Amendment of Certificate of Incorporation filed with Secretary of State of Delaware on May 17, 2005. (Incorporated by reference to Exhibit 3.1 of the Registrant's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2005, filed on August 1, 2005.)
- Certificate of Amendment of Certificate of Incorporation filed with the Secretary of State of Delaware on October 7, 2011. (Incorporated by reference to Exhibit 3.1 to Form 8-K filed on October 7, 2011.)
- Certificate of Amendment of Certificate of Incorporation filed with the Secretary of State of Delaware on May 21, 2013. (Incorporated by reference to Exhibit 3.1 of the Registrant's Current Report on Form 8-K, filed on May 22, 2013.)
- Amended and Restated By-Laws of 3D Systems Corporation. (Incorporated by reference to Exhibit 3.1 of Registrant's Current Report on Form 8-K filed on March 15, 2018.)
- Certification of Principal Executive Officer filed pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 dated October 30, 2018.
- Certification of Principal Financial Officer filed pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 dated October 30, 2018.
- Certification of Principal Executive Officer filed pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 dated October 30, 2018.
- Certification of Principal Financial Officer filed pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 dated October 30, 2018.
- 101.INS XBRL Instance Document.
- 101.SCH XBRL Taxonomy Extension Schema Document.
- 101.CALXBRL Taxonomy Extension Calculation Linkbase Document.
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document.
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document.
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document.

* Management contract or compensatory plan or arrangement

SIGNATURE

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

3D Systems Corporation

By/s/ John N. McMullen
John N. McMullen
Executive Vice President and Chief Financial Officer
(principal financial and accounting officer)
(duly authorized officer)

Date: October 30, 2018