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

FORM 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2019

OR

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

For the transition period from _____ to _____

Commission File Number: 0-23081

FARO TECHNOLOGIES INC

(Exact Name of Registrant as Specified in Its Charter)

Florida

(State or other Jurisdiction of Incorporation or Organization)

59-3157093

(I.R.S. Employer Identification No.)

250 Technology Park, Lake Mary, Florida

(Address of Principal Executive Offices)

32746

(Zip Code)

(407) 333-9911

(Registrant's Telephone Number, including Area Code)

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

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). YES NO

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

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

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

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

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered

There were 17,328,630 shares of the registrant's common stock outstanding as of April 26, 2019.

FARO TECHNOLOGIES, INC.

Quarterly Report on Form 10-Q
Quarter Ended March 31, 2019

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PART I. FINANCIAL INFORMATION**Item 1. Financial Statements****FARO TECHNOLOGIES, INC. AND SUBSIDIARIES**
CONDENSED CONSOLIDATED BALANCE SHEETS

(in thousands, except share and per share data)	March 31, 2019 (unaudited)	December 31, 2018
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 110,696	\$ 108,783
Short-term investments	24,831	24,793
Accounts receivable, net	76,237	88,927
Inventories, net	74,586	65,444
Prepaid expenses and other current assets	24,210	28,795
Total current assets	310,560	316,742
Property and equipment:		
Machinery and equipment	80,586	76,048
Furniture and fixtures	6,141	6,749
Leasehold improvements	20,311	20,304
Property and equipment at cost	107,038	103,101
Less: accumulated depreciation and amortization	(76,188)	(72,684)
Property and equipment, net	30,850	30,417
Operating lease right-of-use asset	18,876	—
Goodwill	71,097	67,274
Intangible assets, net	29,507	33,054
Service and sales demonstration inventory, net	38,351	39,563
Deferred income tax assets, net	14,696	14,719
Other long-term assets	4,416	4,475
Total assets	\$ 518,353	\$ 506,244
LIABILITIES AND SHAREHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 14,351	\$ 20,093
Accrued liabilities	31,389	36,327
Income taxes payable	3,747	5,081
Current portion of unearned service revenues	34,189	32,878
Customer deposits	2,847	3,144
Lease liability	6,446	—
Total current liabilities	92,969	97,523
Unearned service revenues - less current portion	16,319	15,505
Lease liability - less current portion	14,363	—
Deferred income tax liabilities	2,541	736
Income taxes payable - less current portion	12,247	12,247
Other long-term liabilities	3,326	3,624
Total liabilities	141,765	129,635
Commitments and contingencies - See Note 16		
Shareholders' equity:		
Common stock - par value \$.001, 50,000,000 shares authorized; 18,731,586 and 18,676,059 issued, respectively; 17,317,875 and 17,253,011 outstanding, respectively	19	19
Additional paid-in capital	252,840	251,329
Retained earnings	175,178	175,353
Accumulated other comprehensive loss	(20,047)	(18,483)
Common stock in treasury, at cost; 1,413,711 and 1,423,048 shares, respectively	(31,402)	(31,609)
Total shareholders' equity	376,588	376,609
Total liabilities and shareholders' equity	\$ 518,353	\$ 506,244

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

FARO TECHNOLOGIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(UNAUDITED)

(in thousands, except share and per share data)	Three Months Ended	
	March 31, 2019	March 31, 2018
Sales		
Product	\$ 68,800	\$ 70,581
Service	24,817	22,253
Total sales	93,617	92,834
Cost of Sales		
Product	26,128	26,884
Service	12,470	12,164
Total cost of sales (exclusive of depreciation and amortization, shown separately below)	38,598	39,048
Gross Profit	55,019	53,786
Operating Expenses		
Selling and marketing	26,753	28,271
General and administrative	13,224	11,073
Depreciation and amortization	4,749	4,343
Research and development	9,935	9,406
Total operating expenses	54,661	53,093
Income from operations	358	693
Other expense (income)		
Interest income, net	(144)	(73)
Other expense, net	195	184
Income before income tax expense	307	582
Income tax expense	155	127
Net income	\$ 152	\$ 455
Net income per share - Basic	\$ 0.01	\$ 0.03
Net income per share - Diluted	\$ 0.01	\$ 0.03
Weighted average shares - Basic	17,280,365	16,837,754
Weighted average shares - Diluted	17,868,816	17,142,770

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

FARO TECHNOLOGIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) INCOME
(UNAUDITED)

(in thousands)	Three Months Ended	
	March 31, 2019	March 31, 2018
Net income	\$ 152	\$ 455
Currency translation adjustments	(1,564)	5,214
Comprehensive (loss) income	\$ (1,412)	\$ 5,669

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

FARO TECHNOLOGIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(UNAUDITED)

(in thousands)	Three Months Ended	
	March 31, 2019	March 31, 2018
Cash flows from:		
Operating activities:		
Net income	\$ 152	\$ 455
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Depreciation and amortization	4,749	4,343
Stock-based compensation	2,564	1,553
(Recoveries) provisions for bad debts, net	(100)	24
Loss on disposal of assets	57	127
Provision for excess and obsolete inventory	896	312
Deferred income tax expense (benefit)	8	(128)
Change in operating assets and liabilities:		
Decrease (Increase) in:		
Accounts receivable	12,410	1,808
Inventories	(10,908)	(5,208)
Prepaid expenses and other current assets	4,463	(936)
(Decrease) Increase in:		
Accounts payable, accrued liabilities, and lease liability	(9,172)	(4,846)
Income taxes payable	(1,323)	(2,571)
Customer deposits	(310)	(213)
Unearned service revenues	2,324	1,231
Net cash provided by (used in) operating activities	5,810	(4,049)
Investing activities:		
Purchases of property and equipment	(1,543)	(2,243)
Payments for intangible assets	(529)	(650)
Acquisition of businesses	—	(3,966)
Net cash used in investing activities	(2,072)	(6,859)
Financing activities:		
Payments on finance leases	(90)	(46)
Payments of contingent consideration for acquisitions	(250)	—
Payments for taxes related to net share settlement of equity awards	(1,138)	—
Proceeds from issuance of stock related to stock option exercises	292	6,785
Net cash (used in) provided by financing activities	(1,186)	6,739
Effect of exchange rate changes on cash and cash equivalents	(639)	2,035
Increase (decrease) in cash and cash equivalents	1,913	(2,134)
Cash and cash equivalents, beginning of period	108,783	140,960
Cash and cash equivalents, end of period	\$ 110,696	\$ 138,826

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

FARO TECHNOLOGIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY
(UNAUDITED)

(in thousands, except share data)	Common Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive (Loss) Income	Common Stock in Treasury	Total
	Shares	Amounts					
BALANCE DECEMBER 31, 2018	17,253,011	\$ 19	\$ 251,329	\$ 175,353	\$ (18,483)	\$ (31,609)	\$ 376,609
Net income				152			152
Currency translation adjustment, net of income tax					(1,564)		(1,564)
Stock-based compensation			2,564				2,564
Common stock issued, net of shares withheld for employee taxes	64,864	—	(1,053)			207	(846)
Cumulative effect of the adoption of ASU 2016-02				(327)			(327)
BALANCE MARCH 31, 2019	17,317,875	\$ 19	\$ 252,840	\$ 175,178	\$ (20,047)	\$ (31,402)	\$ 376,588

(in thousands, except share data)	Common Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive (Loss) Income	Common Stock in Treasury	Total
	Shares	Amounts					
BALANCE DECEMBER 31, 2017	16,796,884	\$ 18	\$ 223,055	\$ 168,624	\$ (7,822)	\$ (31,809)	\$ 352,066
Net income				455			455
Currency translation adjustment, net of income tax					5,214		5,214
Stock-based compensation			1,553				1,553
Common stock issued, net of shares withheld for employee taxes	158,795	—	6,601			75	6,676
Cumulative effect of the adoption of ASU 2014-09				2,365			2,365
BALANCE MARCH 31, 2018	16,955,679	\$ 18	\$ 231,209	\$ 171,444	\$ (2,608)	\$ (31,734)	\$ 368,329

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

FARO TECHNOLOGIES, INC. AND SUBSIDIARIES
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(UNAUDITED)

(in thousands, except share and per share data, or as otherwise noted)

NOTE 1 – DESCRIPTION OF BUSINESS

FARO Technologies, Inc. and its subsidiaries (collectively “FARO,” the “Company,” “us,” “we” or “our”) design, develop, manufacture, market and support software driven, three-dimensional (“3D”) measurement and imaging solutions. This technology permits high-precision 3D measurement, imaging and comparison of parts and complex structures within production and quality assurance processes. Our devices are used for inspection of components and assemblies, rapid prototyping, reverse engineering, documenting large volume or structures in 3D, surveying and construction, as well as for investigation and reconstruction of accident sites or crime scenes. We sell the majority of our products through a direct sales force across a broad number of customers in a range of manufacturing, industrial, architecture, surveying, building information modeling, construction, public safety forensics, cultural heritage, dental, and other applications. Our FaroArm[®], FARO ScanArm[®], FARO Laser Tracker[™], FARO Cobalt Array Imager, FARO Laser Projector, and their companion CAM2[®], BuildIT, and BuildIT Projector software solutions, provide for Computer-Aided Design (“CAD”) based inspection, factory-level statistical process control, high-density surveying and laser-guided assembly and production. Together, these products integrate the measurement, quality inspection, and reverse engineering functions with CAD and 3D software to improve productivity, enhance product quality, and decrease rework and scrap in the manufacturing process, mainly supporting applications in our 3D Manufacturing vertical. Our FARO Focus, FARO ScanPlan and FARO Scanner Freestyle^{3D} X laser scanners, and their companion FARO SCENE, BuildIT, FARO As-Built[™], and FARO Zone public safety forensics software offerings, are utilized for a wide variety of 3D modeling, documentation and high-density surveying applications in our Construction Building Information Modeling (“Construction BIM”) and Public Safety Forensics verticals. Our FARO ScanArm[®], FARO Cobalt Array Imager, FARO Scanner Freestyle^{3D} X laser scanners and their companion SCENE software, and other 3D-structured light scanning solutions specific to the dental industry also enable a fully digital workflow used to capture real world geometry for the purpose of empowering design, enabling innovation, and speeding up the design cycle, supporting our 3D Design vertical. Our line of galvanometer-based scan heads and laser scan controllers are used in a variety of laser applications and are integrated into larger components and systems, supporting our Photonics vertical.

We report our segment information in accordance with the provisions of Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) Topic 280, *Segment Reporting* (“FASB ASC Topic 280”). We evaluate business performance based upon several metrics, using revenue growth and segment profit as the primary financial measures.

Since the end of the first quarter of 2018, the following changes were made to our verticals and reporting segments:

- In the third quarter of 2018, we merged the historical Factory Metrology and 3D Machine Vision verticals into one vertical named “3D Factory” for greater consistency with our realigned reporting segments.
- In the third quarter of 2018, we segregated the operations of our acquisitions of Laser Control Systems Limited (“Laser Control Systems”) and Lanmark Controls, Inc. (“Lanmark”), along with the operations resulting from our acquisition of substantially all of the assets of Instrument Associates, LLC d/b/a Nutfield Technology, into a vertical that we named “Photonics.” The creation of this vertical enables us to better focus on our product range directed at laser steering. These operations were historically reported in the 3D Factory reporting segment in the first six months of 2018 and the historical Factory Metrology reporting segment in 2017 and are now included in the Emerging Verticals (formerly known as “Other”) reporting segment.
- In the third quarter of 2018, we renamed our Product Design vertical “3D Design.”
- In the fourth quarter of 2018, we renamed our 3D Factory vertical and reporting segment “3D Manufacturing.”

There has been no change in our total consolidated financial condition or results of operations previously reported as a result of these changes in our verticals and reportable segments. The amounts related to our reporting segment information for the three months ended March 31, 2018 have been restated throughout this Quarterly Report on Form 10-Q to reflect the changes in our reporting segments. Each of our reporting segments continues to employ consistent accounting policies.

We now report our activities in the following three reportable segments:

- The 3D Manufacturing reporting segment contains solely our 3D Manufacturing vertical and provides both standardized and customized solutions for 3D measurement and inspection in an industrial or manufacturing environment. Applications include alignment, part inspection, dimensional analysis, first article inspection, incoming and in-process inspection, machine calibration, non-contact inspection, robot calibration, tool building and set-up, and assembly guidance.
- The Construction BIM reporting segment contains solely our Construction BIM vertical and provides solutions for as-built data capturing and 3D visualization in building information modeling applications, allowing our customers in the architecture, engineering and construction markets to quickly and accurately extract two-dimensional (“2D”) and 3D measurement points. Applications include as-built documentation, construction monitoring, surveying, asset and facility management, and heritage preservation.
- The Emerging Verticals reporting segment includes our 3D Design, Public Safety Forensics, and Photonics verticals. Our 3D Design vertical provides advanced 3D solutions to capture and edit 3D shapes of products, people and/or environments for design purposes in product development, computer graphics and dental and medical applications. Our Public Safety Forensics vertical provides solutions to public safety officials and professionals to capture environmental or situational scenes in 2D and 3D for crime, crash and fire scene investigations and environmental safety evaluations. Our Photonics vertical develops and markets galvanometer-based laser measurement products and solutions.

All operating segments that do not meet the criteria to be reportable segments are aggregated in the Emerging Verticals reporting segment and have been combined based on the aggregation criteria and quantitative thresholds in accordance with the provisions of FASB ASC Topic 280. Our reporting segments have been determined in accordance with our internal management structure, which is based on operating activities. Each segment is responsible for its own product management, sales, strategy and profitability. See Note 15 – Segment Reporting for further information.

NOTE 2 – PRINCIPLES OF CONSOLIDATION

Our condensed consolidated financial statements include the accounts of FARO Technologies, Inc. and its subsidiaries, all of which are wholly-owned. All intercompany transactions and balances have been eliminated. The financial statements of our foreign subsidiaries are translated into U.S. dollars using exchange rates in effect at period-end for assets and liabilities and average exchange rates during each reporting period for results of operations. Adjustments resulting from financial statement translations are reflected as a separate component of accumulated other comprehensive loss. Foreign currency transaction gains and losses are included in net income.

NOTE 3 – BASIS OF PRESENTATION

The accompanying unaudited condensed consolidated financial statements and notes thereto have been prepared in accordance with accounting principles generally accepted in the United States (“U.S. GAAP”) for interim financial information and with the instructions of Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete financial statements. These condensed consolidated financial statements include all normal recurring accruals and adjustments considered necessary by management for a fair presentation in conformity with U.S. GAAP. Preparing financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ materially from those estimates. The condensed consolidated results of operations for the three months ended March 31, 2019 are not necessarily indicative of results that may be expected for the year ending December 31, 2019 or any future period.

The information included in this Quarterly Report on Form 10-Q, including the interim condensed consolidated financial statements and the accompanying notes, should be read in conjunction with the audited consolidated financial statements and related notes included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018. The accompanying December 31, 2018 condensed consolidated balance sheet has been derived from those audited consolidated financial statements. As described in Note 1 – Description of Business, after the first quarter of 2018, we changed our reporting segment structure. Amounts related to our reporting segment information for the three months ended March 31, 2018 have been restated throughout this Quarterly Report on Form 10-Q to reflect the changes in our reporting segments.

NOTE 4 – IMPACT OF RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS

Impact of Recently Adopted Accounting Standards

In February 2016, the FASB issued Accounting Standards Update (“ASU”) No. 2016-02, *Leases (Topic 842)* (“ASU 2016-02”), which is intended to increase transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements to enable users of financial statements to assess the amount, timing and uncertainty of cash flows arising from leases. ASU 2018-11, *Lease Topic 842: Targeted Improvements*, was issued by the FASB in July 2018 and allows for a cumulative-effect adjustment transition method of adoption. The new guidance is effective for fiscal years beginning after December 15, 2018 and interim periods within those years. We adopted ASU 2016-02 effective as of January 1, 2019 utilizing the cumulative-effect adjustment transition method of adoption, which resulted in the recognition on our condensed consolidated balance sheet as of March 31, 2019 of \$18.9 million of right-of-use assets for operating leases, \$19.9 million of lease liability for operating leases, \$0.9 million of property and equipment, net for finance leases and \$0.9 million of lease liability for finance leases under which we function as a lessee. We elected certain practical expedients available under the transition provisions to (i) allow aggregation of non-lease components with the related lease components when evaluating accounting treatment, (ii) apply the modified retrospective adoption method, utilizing the simplified transition option, which allows us to continue to apply the legacy guidance in FASB ASC Topic 840, including its disclosure requirements, in the comparative periods presented in the year of adoption, and (iii) use hindsight in determining the lease term (that is, when considering our options to extend or terminate the lease and to purchase the underlying asset) and in assessing impairment of our right-of-use assets. The adoption of ASU 2016-02 also required us to include any initial direct costs, which are incremental costs that would not have been incurred had the lease not been obtained, in the right-of-use assets. The recognition of these costs in connection with our adoption of this guidance did not have a material impact on our condensed consolidated financial statements.

Impact of Recently Issued Accounting Standards

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 is intended to simplify the subsequent measurement of goodwill by eliminating Step 2 from the goodwill impairment test. Under the current guidance, performance of Step 2 requires us to calculate the implied fair value of goodwill by following procedures that would be required to determine the fair value of assets acquired and liabilities assumed in a business combination. Under the new guidance, we will perform our goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge will be recognized for the amount by which the carrying amount exceeds the reporting unit’s fair value up to the amount of the goodwill allocated to the reporting unit. The new guidance also eliminates the requirements for any reporting unit with a zero or negative carrying amount to perform Step 2 of the goodwill impairment test if it fails the qualitative assessment. As a result, all reporting units will be subject to the same impairment assessment. We will still have the option to perform the qualitative assessment for a reporting unit to determine if the quantitative impairment test is necessary. ASU 2017-04 becomes effective for annual or any interim goodwill impairment tests in fiscal years beginning after December 15, 2019, with early adoption permitted for annual or any interim goodwill impairment tests after January 1, 2017. The amendments in this ASU will be applied on a prospective basis. Disclosure of the nature and reason for the change in accounting principle is required upon transition. This disclosure is required in the first annual period and in the interim period within the first annual period when we initially adopt the amendments in this ASU. We plan to adopt this guidance for our fiscal year ending December 31, 2020. We do not expect that the adoption of this guidance will have a material impact on our condensed consolidated financial statements.

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments* (“ASU 2016-13”), which requires the measurement and recognition of expected credit losses for financial assets held at amortized cost. ASU 2016-13 replaces the existing incurred loss impairment model with an expected loss model that requires the use of forward-looking information to calculate credit loss estimates. It also eliminates the concept of other-than-temporary impairment and requires credit losses related to available-for-sale debt securities to be recorded through an allowance for credit losses rather than as a reduction in the amortized cost basis of the securities. These changes will result in earlier recognition of credit losses. We will adopt ASU 2016-13 effective January 1, 2020. We are currently evaluating the effect of the adoption of ASU 2016-13, but we do not expect that the adoption of this guidance will have a material impact on our condensed consolidated financial statements.

NOTE 5 – REVENUES

The following tables present our revenues by Sales type as presented in our condensed consolidated statements of operations disaggregated by the timing of transfer of goods or services (in thousands, unaudited):

	For the Three Months Ended March 31,	
	2019	2018
Product sales		
Product transferred to customers at a point in time	\$ 68,800	\$ 70,581
Product transferred to customers over time	—	—
	<u>\$ 68,800</u>	<u>\$ 70,581</u>

	For the Three Months Ended March 31,	
	2019	2018
Service sales		
Service transferred to customers at a point in time	\$ 11,854	\$ 9,452
Service transferred to customers over time	12,963	12,801
	<u>\$ 24,817</u>	<u>\$ 22,253</u>

The following table presents our revenues disaggregated by geography, based on the billing addresses of our customers (in thousands, unaudited):

	For the Three Months Ended March 31,	
	2019	2018
Total sales to external customers		
United States	\$ 35,848	\$ 37,302
EMEA (1)	31,100	29,680
APAC (1)	23,337	22,589
Other Americas (1)	3,332	3,263
	<u>\$ 93,617</u>	<u>\$ 92,834</u>

⁽¹⁾ Regions represent Europe, the Middle East, and Africa (EMEA); Asia-Pacific (APAC); and Canada, Mexico, and Brazil (Other Americas).

For revenue related to our measurement and imaging equipment and related software, we allocate the contract price to performance obligations based on our best estimate of the standalone selling price. We make this allocation estimate utilizing data from the sale of our applicable products and services to customers separately in similar circumstances, with the exception of software licenses. With respect to software licenses, we use the residual method for allocating the contract price to performance obligations relating to software licenses. Revenue related to our measurement and imaging equipment and related software is generally recognized upon shipment from our facilities or when delivered to the customer location, as determined by the agreed upon shipping terms, at which time we are entitled to payment and title and control has passed to the customer. Software arrangements generally include short-term maintenance that is considered post-contract support (“PCS”), which is considered to be a separate performance obligation. We generally establish a standalone sales price for this PCS component based on our maintenance renewal rate. Maintenance renewals, when sold, are recognized on a straight-line basis over the term of the maintenance agreement. Payment for products and services is collected within a short period of time following transfer of control or commencement of delivery of services, as applicable.

Further, customers frequently purchase extended warranties with the purchase of measurement equipment and related software. Warranties are considered a performance obligation when services are transferred to a customer over time, and, as such, we recognize revenue on a straight-line basis over the warranty term. Extended warranty sales include contract periods that extend between one month and three years.

We capitalize commission expenses related to deliverables transferred to a customer over time and amortize such costs ratably over the term of the contract. As of March 31, 2019, the deferred cost asset related to deferred commissions was approximately \$2.8 million. For classification purposes, \$1.9 million and \$0.9 million are comprised within the Prepaid expenses and other current assets and Other long-term assets, respectively, on our condensed consolidated balance sheet as of March 31, 2019. As of March 31, 2018, the deferred cost asset related to deferred commissions was approximately \$2.5 million. For classification purposes, \$1.8 million and \$0.7 million were comprised within the Prepaid expenses and other current assets and Other long-term assets, respectively, on our condensed consolidated balance sheet as of March 31, 2018.

The unearned service revenue liabilities reported on our condensed consolidated balance sheets reflect the contract liabilities to satisfy the remaining performance obligations for extended warranties and software maintenance. The current portion of unearned service revenues on our condensed consolidated balance sheets is what we expect to recognize to revenue within twelve months after the applicable balance sheet date relating to extended warranty and software maintenance contract liabilities. The Unearned service revenues - less current portion on our condensed consolidated balance sheets is what we expect to recognize to revenue extending beyond twelve months after the applicable balance sheet date relating to extended warranty and software maintenance contract liabilities. During the three months ended March 31, 2019, we recognized \$10.8 million of service revenue that was deferred on our condensed consolidated balance sheet as of December 31, 2018. During the three months ended March 31, 2018, we recognized \$9.0 million of service revenue that was deferred on our consolidated balance sheet as of December 31, 2017.

The nature of certain of our contracts gives rise to variable consideration, which may be constrained, primarily related to an allowance for sales returns. We are required to estimate the contract asset related to sales returns and record a corresponding adjustment to Cost of Sales. Our allowance for sales returns was approximately \$0.1 million as of both March 31, 2019 and March 31, 2018.

Shipping and handling fees billed to customers in a sales transaction are recorded in Product Sales and shipping and handling costs incurred are recorded in Cost of Sales. We exclude from Sales any value added sales and other taxes that we collect concurrently with revenue-producing activities.

NOTE 6 – STOCK-BASED COMPENSATION

Stock-based compensation expense reflects the fair value of stock-based awards measured at the grant date. For awards with only a service condition, we expense stock-based compensation using the straight-line method over the requisite service period for the entire award. For awards with both performance and service conditions, we expense the stock-based compensation on a straight-line basis over the requisite service period taking into account the probability that we will satisfy the performance condition.

We have two compensation plans that provide for the granting of stock options and other share-based awards to key employees and non-employee members of the Board of Directors (the “Board”). The 2009 Equity Incentive Plan (the “2009 Plan”) and the 2014 Equity Incentive Plan (the “2014 Plan”) provide for granting options, restricted stock, restricted stock units or stock appreciation rights to employees and non-employee directors. In May 2018, our shareholders approved an amendment to the 2014 Plan, which increased the number of shares available for issuance under the 2014 Plan by 1,000,000 shares. A maximum of 2,974,543 shares are available for issuance under the 2014 Plan, as amended, plus the number of shares (not to exceed 891,960) that were underlying awards outstanding under the 2004 Equity Incentive Plan (the “2004 Plan”) and the 2009 Plan as of May 29, 2014 that thereafter terminate or expire unexercised or are canceled, forfeited or lapse for any reason. No awards were outstanding under the 2004 Plan as of March 31, 2019, and no further grants will be made under the 2004 Plan or the 2009 Plan.

Upon election to the Board, each non-employee director receives an initial equity grant of shares of restricted common stock with a value equal to \$100,000, calculated using the closing price of our common stock on the date of the non-employee director's election to the Board. The initial restricted stock grant vests on the third anniversary of the grant date, subject to the non-employee director's continued membership on the Board. Annually, the non-employee directors are granted restricted shares with a value equal to \$100,000 on the first business day following the annual meeting of shareholders, calculated using the closing price of our common stock on that day. In addition, the independent Chairman of the Board is annually granted restricted shares with a value equal to \$50,000, and the Lead Director, if one has been appointed, would be annually granted restricted shares with a value of \$40,000, on the first business day following the annual meeting of shareholders, calculated using the closing price of our common stock on that day. The shares of restricted stock granted annually to our non-employee directors, our independent Chairman of the Board and, if applicable, our Lead Director vest on the day prior to the following year's annual meeting date, subject to the non-employee director's continued membership on the Board. We record compensation cost associated with our restricted stock grants on a straight-line basis over the vesting term. Also, beginning in October 2018, our non-employee directors may elect to have their annual cash retainers and annual equity retainers paid in the form of deferred stock units pursuant to the 2014 Plan and the 2018 Non-Employee Director Deferred Compensation Plan. Each deferred stock unit represents the right to receive one share of our common stock upon the non-employee director's separation of service from the Company. We record compensation cost associated with our deferred stock units over the period of service.

Annually, upon approval by our Compensation Committee, we grant stock-based awards, which historically have been in the form of stock options and/or restricted stock units, to certain employees. We also grant stock-based awards, which historically have been in the form of stock options and/or restricted stock units, to certain new employees throughout the year. The fair value of these stock-based awards is determined by using (a) the current market price of our common stock on the grant date in the case of restricted stock units without a market condition, (b) the Monte Carlo Simulation valuation model in the case of performance-based restricted stock units with a market condition, or (c) the Black-Scholes option valuation model in the case of stock options.

Our annual grants in February 2019 consisted of performance-based restricted stock units and time-based restricted stock units. Our annual grants in March 2018 consisted of time-based stock options and time-based restricted stock units. The number of stock options and/or restricted stock units granted was based on the employee's individual objectives, performance against operational metrics assigned to the employee and overall contribution to the Company over the last year.

For the stock-based awards granted in February 2019, the time-based restricted stock units vest in three equal annual installments beginning one year after the grant date. The performance-based restricted stock unit awards vest at the end of the three-year performance period if the applicable performance measure is achieved. The related stock-based compensation expense will be recognized over the requisite service period, taking into account the probability that we will satisfy the performance measure. The performance-based restricted stock units granted in 2019 will be earned and will vest based upon our total shareholder return ("TSR") relative to the TSR attained by companies within our defined benchmark group, the Russell 2000 Growth Index. Due to the TSR presence in these performance-based restricted stock units, the fair value of these awards was determined using the Monte Carlo Simulation valuation model. We expense these market condition awards over the three-year vesting period regardless of the value the award recipients ultimately receive.

For 2018 grants, stock options vest in three equal annual installments beginning one year after the grant date and time-based restricted stock unit awards vest in full on the three-year anniversary of the grant date. The fair value of these stock-based awards is determined by using (a) the Black-Scholes option valuation model in the case of stock options or (b) the current market price of our common stock on the grant date in the case of restricted stock units.

The Black-Scholes option and Monte Carlo Simulation valuation models incorporate assumptions as to stock price volatility, the expected life of options or awards, a risk-free interest rate and dividend yield. The weighted-average grant-date fair value of the performance-based restricted stock units that were granted during the three months ended March 31, 2019 and valued using the Monte Carlo Simulation valuation model was \$62.74. No performance-based restricted stock units were granted during the three months ended March 31, 2018. For performance-based restricted stock units granted during the three months ended March 31, 2019 valued using the Monte Carlo Simulation valuation model, we used the following assumptions:

	Three Months Ended
	March 31, 2019
Risk-free interest rate	2.48%
Expected dividend yield	—%
Expected volatility	45.0%
Weighted-average expected volatility	45.0%

The weighted-average grant-date fair value of the stock options that were granted during the three months ended March 31, 2018 and valued using the Black-Scholes option valuation model was \$23.43 per option. No stock options were granted during the three months ended March 31, 2019. For stock options granted during the three months ended March 31, 2018 valued using the Black-Scholes option valuation model, we used the following assumptions:

	Three Months Ended March 31, 2018
Risk-free interest rate	2.65%
Expected dividend yield	—%
Expected term of option	4 years
Expected volatility	45.0%
Weighted-average expected volatility	45.0%

Historical information was the primary basis for the selection of the expected dividend yield, expected volatility and the expected lives of the options. The risk-free interest rate was based on the yields of U.S. zero coupon issues and U.S. Treasury issues, with a term approximating the expected life of the option being valued.

A summary of stock option activity and weighted-average exercise prices during the three months ended March 31, 2019 follows:

	Options	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value as of March 31, 2019
Outstanding at January 1, 2019	792,943	\$ 47.59		
Granted	—	—		
Forfeited or expired	(65,868)	54.23		
Exercised	(8,513)	34.18		
Outstanding at March 31, 2019	718,562	\$ 47.38	4.3	\$ 3,118
Options exercisable at March 31, 2019	540,597	\$ 46.57	2.6	\$ 2,410

The total intrinsic value of stock options exercised during the three months ended March 31, 2019 and March 31, 2018 was \$0.1 million and \$2.7 million, respectively. The fair value of stock options vested during the three months ended March 31, 2019 and March 31, 2018 was \$2.7 million and \$3.1 million, respectively.

The following table summarizes the restricted stock and restricted stock unit activity and weighted average grant-date fair values for the three months ended March 31, 2019:

	Shares	Weighted-Average Grant Date Fair Value
Non-vested at January 1, 2019	311,000	\$ 42.66
Granted	172,324	45.32
Forfeited	(8,453)	44.36
Vested	(82,930)	34.47
Non-vested at March 31, 2019	391,941	\$ 45.53

We recorded total stock-based compensation expense of \$2.6 million and \$1.6 million for the three months ended March 31, 2019 and March 31, 2018, respectively.

As of March 31, 2019, there was \$15.9 million of total unrecognized stock-based compensation expense related to non-vested stock-based compensation arrangements. The expense is expected to be recognized over a weighted average period of 2.1 years.

NOTE 7 – SHORT-TERM INVESTMENTS

Short-term investments at March 31, 2019 consisted of U.S. Treasury Bills totaling \$24.8 million, consisting of \$10.9 million maturing on June 6, 2019, \$4.9 million maturing on June 20, 2019 and \$9.0 million maturing on September 12, 2019, respectively. The interest rates on the U.S. Treasury Bills held on March 31, 2019 that are maturing on June 6, 2019, June 20, 2019, and September 12, 2019 were 2.4%, 2.3%, and 2.3%, respectively. Short-term investments at December 31, 2018 consisted of U.S. Treasury Bills totaling \$24.8 million, consisting of \$9.0 million that matured on March 14, 2019, \$10.9 million maturing on June 6, 2019, and \$4.9 million maturing on June 20, 2019. The interest rates on the U.S. Treasury Bills held on December 31, 2018 that matured on March 14, 2019 and that are maturing on June 6, 2019 and June 20, 2019 were 2.2%, 2.4%, and 2.3%, respectively. The investments are classified as held-to-maturity and recorded at cost plus accrued interest, which approximates fair value. We do not intend to sell these investments, and it is not more likely than not that we will be required to sell the investments before we recover their amortized cost bases.

NOTE 8 – ACCOUNTS RECEIVABLE

Accounts receivable consist of the following:

	As of March 31, 2019	As of December 31, 2018
Accounts receivable	\$ 77,879	\$ 90,675
Allowance for doubtful accounts	(1,642)	(1,748)
Total	<u>\$ 76,237</u>	<u>\$ 88,927</u>

NOTE 9 – INVENTORIES

Inventories are stated at the lower of cost or net realizable value using the first-in first-out (FIFO) method. We have three principal categories of inventory: 1) manufactured product to be sold; 2) sales demonstration inventory - completed product used to support our sales force, for demonstrations and held for sale; and 3) service inventory - completed product and parts used to support our service department and held for sale. Shipping and handling costs are classified as a component of cost of sales in our condensed consolidated statements of operations. Sales demonstration inventory is held by our sales representatives for up to three years, at which time it would be refurbished and transferred to finished goods as used equipment, stated at the lower of cost or net realizable value. We expect these refurbished units to remain in finished goods inventory and sold within 12 months at prices that produce reduced gross margins. Service inventory is used to provide a temporary replacement product to a customer covered by a premium warranty when the customer's unit requires service or repair and as training equipment. Service inventory is available for sale; however, management does not expect service inventory to be sold within 12 months and, as such, classifies this inventory as a long-term asset. Service inventory that we utilize for training or repairs and which we deem as no longer available for sale is transferred to fixed assets at the lower of cost or net realizable value and depreciated over its remaining life, typically three years.

Inventories consist of the following:

	As of March 31, 2019	As of December 31, 2018
Raw materials	\$ 43,406	\$ 39,859
Finished goods	31,180	25,585
Inventories, net	<u>\$ 74,586</u>	<u>\$ 65,444</u>
Service and sales demonstration inventory, net	<u>\$ 38,351</u>	<u>\$ 39,563</u>

NOTE 10 – EARNINGS PER SHARE

Basic earnings per share is computed by dividing net income by the weighted average number of shares outstanding. Diluted earnings per share is computed by also considering the impact of potential common stock on both net income and the weighted average number of shares outstanding. Our potential common stock consists of employee stock options, restricted stock units and performance-based awards. Our potential common stock is included in the diluted earnings per share calculation when adding such potential common stock would not be anti-dilutive. Performance-based awards are included in the computation of diluted earnings per share only to the extent that the underlying performance conditions (and any applicable market condition) (i) are satisfied as of the end of the reporting period or (ii) would be considered satisfied if the end of the reporting period were the end of the related contingency period and the result would be dilutive under the treasury stock method. When we report a net loss for the period presented, the calculation of diluted net loss per share excludes our potential common stock, as the effect would be anti-dilutive.

For the three months ended March 31, 2019, there were approximately 372,326 shares issuable upon the exercise of options and the contingent vesting of performance-based restricted stock units that were excluded from the dilutive calculations, as they were anti-dilutive. For the three months ended March 31, 2018, there were approximately 655,944 shares issuable upon the exercise of options that were excluded from the dilutive calculations, as they were anti-dilutive.

A reconciliation of the number of common shares used in the calculation of basic and diluted earnings per share (“EPS”) is presented below:

	Three Months Ended			
	March 31, 2019		March 31, 2018	
	Shares	Per-Share Amount	Shares	Per-Share Amount
Basic earnings per share	17,280,365	\$ 0.01	16,837,754	\$ 0.03
Effect of dilutive securities	588,451	—	305,016	—
Diluted earnings per share	17,868,816	\$ 0.01	17,142,770	\$ 0.03

NOTE 11 – ACCRUED LIABILITIES

Accrued liabilities consist of the following:

	As of March 31, 2019	As of December 31, 2018
Accrued compensation and benefits	\$ 13,902	\$ 17,745
Accrued warranties	2,474	2,571
Professional and legal fees	2,304	2,154
Taxes other than income	3,344	3,550
General services administration contract contingent liability (see Note 16)	5,347	5,267
Other accrued liabilities	4,018	5,040
	<u>\$ 31,389</u>	<u>\$ 36,327</u>

Activity related to accrued warranties was as follows:

	Three Months Ended	
	March 31, 2019	March 31, 2018
Balance, beginning of period	\$ 2,571	\$ 2,628
Provision for warranty expense	878	914
Fulfillment of warranty obligations	(975)	(1,067)
Balance, end of period	<u>\$ 2,474</u>	<u>\$ 2,475</u>

NOTE 12 – INCOME TAXES

For the three months ended March 31, 2019, we recorded an income tax expense of \$0.2 million compared with income tax expense of \$0.1 million for the three months ended March 31, 2018. Our effective tax rate was 50.5% for the three months ended March 31, 2019 compared with 21.8% in the prior year period. The changes in our income tax expense and our effective tax rate were primarily due to the mix of jurisdictions where we earned pretax book income or incurred a pretax book loss during the three months ended March 31, 2019 compared to the same period in the prior year.

Our quarterly estimate of our annual effective tax rate, and our quarterly provision for income tax expense, are subject to significant variation due to numerous factors, including variability in accurately predicting our pretax and taxable income or loss and the mix of jurisdictions to which they relate, as well as the amount of pretax income or loss recognized during the quarter.

NOTE 13 – FAIR VALUE MEASUREMENTS

Our financial instruments include cash and cash equivalents, short-term investments, accounts receivable, customer deposits, accounts payable and accrued liabilities. The carrying amounts of such financial instruments approximate their fair value due to the short-term nature of these instruments.

Liabilities measured at fair value on a recurring basis are categorized in the tables below based upon the lowest level of significant input to the valuations:

	As of March 31, 2019		
	Level 1	Level 2	Level 3
Liabilities:			
Contingent consideration (1)	\$ —	\$ —	\$ 5,205
Total	\$ —	\$ —	\$ 5,205
	As of December 31, 2018		
	Level 1	Level 2	Level 3
Liabilities:			
Contingent consideration (1)	\$ —	\$ —	\$ 5,531
Total	\$ —	\$ —	\$ 5,531

- (1) Contingent consideration liability represents arrangements to pay the former owners of certain companies we acquired based on the former owners attaining future product release milestones. We use a probability-weighted discounted cash flow model to estimate the fair value of contingent consideration liabilities. These probability weightings are developed internally and assessed on a quarterly basis. The remaining undiscounted maximum payment under these arrangements was \$5.6 million as of March 31, 2019. We paid \$0.3 million as part of these arrangements during the three months ended March 31, 2019, which was the primary reason for the change in the fair value of the contingent consideration from December 31, 2018 to March 31, 2019.

NOTE 14 – VARIABLE INTEREST ENTITY

A variable interest entity (“VIE”) is an entity that has one of three characteristics: (1) it is controlled by someone other than its shareowners or partners, (2) its shareowners or partners are not economically exposed to the entity’s earnings (for example, they are protected against losses), or (3) it lacks sufficient equity to permit the entity to finance its activities without additional subordinated financial support from other parties.

On April 27, 2018, we invested \$1.8 million in present4D GmbH (“present4D”), a software solutions provider for professional virtual reality presentations and training environments, in the form of an equity capital contribution. This contribution represents a minority investment in present4D. This investment’s business purpose is to coordinate the design and development of modules supporting compatibility with virtual reality for our existing software offerings.

As of our investment date, present4D was thinly capitalized and lacked sufficient equity to finance its activities without additional subordinated financial support and is classified as a VIE. We do not have power over decisions that significantly affect present4D’s economic performance and do not represent its primary beneficiary. After April 27, 2020, present4D may request additional equity financing up to \$1.8 million from us in exchange for additional share capital, which additional equity financing would be at our discretion. We have not provided support to present4D during the periods presented outside of our initial investment of \$1.8 million. At this time, we do not intend to provide future support to present4D, but we will continue to evaluate whether we intend to obtain the aforementioned additional share capital in the future. Our 16.5% portion of present4D’s net loss for the three month period ended March 31, 2019 was less than \$0.1 million. Present4D is currently accounted for using the equity method of accounting. Our equity in the net loss from this equity-method investment is recorded as loss with a corresponding decrease in the investment. Our investment in this unconsolidated VIE at March 31, 2019 and December 31, 2018 was \$1.7 million and is included in Other long-term assets in our condensed consolidated balance sheets as of March 31, 2019 and December 31, 2018.

NOTE 15 – SEGMENT REPORTING

We have three reportable segments: 3D Manufacturing, Construction BIM, and Emerging Verticals. These segments are based upon the vertical markets that we currently serve. Business activities that do not meet the criteria to be reportable segments are aggregated in the Emerging Verticals segment.

We develop, manufacture, market, support and sell CAD-based quality assurance products integrated with CAD-based inspection and statistical process control software and 3D documentation systems in each of these reportable segments. These activities represent more than 99% of consolidated sales.

Our Chief Operating Decision Maker (CODM), our Chief Executive Officer, evaluates segment performance and allocates resources based upon profitable growth. We use segment profit to evaluate the performance of our reportable segments. Segment profit is calculated as gross profit, net of selling and marketing expenses, for the reporting segment. Our definition of segment profit may not be comparable to similarly-titled measures reported by other companies.

Our segment structure presented below represents a change from the prior year as further described in Note 1 – Description of Business. The amounts for the three months ended March 31, 2018 have been restated to reflect the change in our reporting segments. Each of our reporting segments continues to employ consistent accounting policies.

The following tables present information about our reportable segments, including a reconciliation of segment profit to income from operations included in the condensed consolidated statements of operations for the three months ended March 31, 2019 and 2018:

	<u>3D Manufacturing</u>	<u>Construction BIM</u>	<u>Emerging Verticals</u>	<u>Total</u>
Three Months Ended March 31, 2019				
Total sales	\$ 56,567	\$ 25,440	\$ 11,610	\$ 93,617
Segment profit	\$ 19,170	\$ 8,427	\$ 669	\$ 28,266
General and administrative				13,224
Depreciation and amortization				4,749
Research and development				9,935
Income from operations				<u>\$ 358</u>

	3D Manufacturing	Construction BIM	Emerging Verticals	Total
Three Months Ended March 31, 2018				
Total sales	\$ 60,657	\$ 22,682	\$ 9,495	\$ 92,834
Segment profit	\$ 18,425	\$ 6,451	\$ 639	\$ 25,515
General and administrative				11,073
Depreciation and amortization				4,343
Research and development				9,406
Income from operations				<u>\$ 693</u>

NOTE 16 – COMMITMENTS AND CONTINGENCIES

Purchase Commitments — We enter into purchase commitments for products and services in the ordinary course of business. These purchases generally cover production requirements for 60 to 120 days as well as materials necessary to service customer units through the product lifecycle and for warranty commitments. As of March 31, 2019, we had approximately \$45.0 million in purchase commitments that are expected to be delivered within the next 12 months.

Legal Proceedings — We are not involved in any legal proceedings, including routine litigation arising in the normal course of business, that we believe will have a material adverse effect on our business, financial condition or results of operations.

U.S. Government Contracting Matter — We have sold our products and related services to the U.S. Government (the “Government”) under General Services Administration (“GSA”) Federal Supply Schedule contracts (the “GSA Contracts”) since 2002 and are currently selling our products and related services to the Government under two such GSA Contracts. Each GSA Contract is subject to extensive legal and regulatory requirements and includes, among other provisions, a price reduction clause (the “Price Reduction Clause”), which generally requires us to reduce the prices billed to the Government under the GSA Contracts to correspond to the lowest prices billed to certain benchmark customers.

Late in the fourth quarter of 2018, during an internal review we preliminarily determined that certain of our pricing practices may have resulted in the Government being overcharged under the Price Reduction Clauses of the GSA Contracts (the “GSA Matter”). As a result, we have begun remediation efforts, including but not limited to, the identification of additional controls and procedures to ensure future compliance with the pricing and other requirements of the GSA Contracts. We have also retained outside legal counsel to assist with these efforts and to conduct a review of our pricing and other practices under the GSA Contracts (the “Review”). On February 14, 2019, we reported the GSA Matter to the GSA and its Office of Inspector General.

Over the six-year period ended December 31, 2018, our sales to the Government under the GSA Contracts were approximately \$53.5 million in the aggregate. As a result of the GSA Matter, for fourth quarter 2018, we reduced our total sales by a \$4.8 million estimated cumulative sales adjustment, representative of the last six years of estimated overcharges to the Government under the GSA Contracts. In addition, for the fourth quarter of 2018, we recorded \$0.5 million of imputed interest related to the estimated cumulative sales adjustment, which increased other expense and resulted in an estimated total liability of \$5.3 million for the GSA Matter.

For the three months ended March 31, 2019, we recorded \$0.1 million of imputed interest related to the estimated cumulative sales adjustment for the six-year period ended December 31, 2018. Our estimated total liability for the GSA Matter is based on our preliminary review as of the date of this Quarterly Report on Form 10-Q and is subject to change based on the results of the Review being conducted by our outside legal counsel and discussions with the Government.

While we have reported this matter to the GSA, the Government may conduct its own investigation or review (including an audit). We intend to cooperate fully with any Government inquiry. The Government's review of, or investigation into, this matter could result in civil and criminal penalties, administrative sanctions, and contract remedies being imposed on us, including but not limited to, termination of the GSA Contracts, repayments of amounts already received under the GSA Contracts, forfeiture of profits, damages, suspension of payments, fines, and suspension or debarment from doing business with the Government and possibly U.S. state and local governments. We may also be subject to litigation and recovery under the federal False Claims Act and possibly similar state laws, which could include claims for treble damages, penalties, fees and costs. As a result, we cannot reasonably predict the outcome of the Government's review of, or investigation into, this matter at this time or the resulting future financial impact on us. Any of these outcomes could have a material adverse effect on our reputation, our sales, results of operations, cash flows and financial condition, and the trading price of our common stock. In addition, we have incurred, and will continue to incur, legal and related costs in connection with the Review and the Government's response to this matter.

NOTE 17 – LEASES

We have operating and finance leases for manufacturing facilities, corporate offices, research and development facilities, sales and training facilities, vehicles, and certain equipment under which we assume the role of lessee. We do not lease assets as a lessor. Our leases have remaining lease terms of less than one year to approximately seven years, some of which include options to extend the leases for up to eight years, and some of which include options to terminate the leases within three months. We currently do not sublease any of our leased assets.

We determine if an arrangement is a lease at inception. Operating leases are included in Operating lease right-of-use ("ROU") asset, Lease liability, and Lease liability - less current portion in our condensed consolidated balance sheets. Finance leases are included in Property and equipment, net, Lease liability, and Lease liability - less current portion in our condensed consolidated balance sheets.

ROU assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. Operating lease ROU assets and lease liabilities are recognized on the commencement date of the lease based on the present value of lease payments over the lease term. Variable lease payments that depend on an index or rate include the variable portion when calculating ROU assets and lease liabilities. Variable lease payments that do not depend on an index or rate are expensed as incurred. As most of our leases do not provide an implicit rate, we use our incremental borrowing rate based on the information available on the commencement date of the lease to determine the present value of lease payments. We use the implicit rate when readily determinable. The operating lease ROU assets also include any lease payments made and lease incentives. Our lease terms may include options to extend or terminate the lease when it is reasonably certain that we will exercise that option at the time the lease is commenced. Lease expense for lease payments is recognized on a straight-line basis over the lease term.

While we have lease agreements with lease and non-lease components, we account for the lease and non-lease components as a single lease component.

The components of lease expense were as follows:

	Three Months Ended March 31, 2019
Operating lease cost	\$ 1,969
Finance lease cost:	
Amortization of ROU assets	92
Interest on lease liabilities	\$ 12
Total finance lease cost	\$ 104

We recognize lease payments made for short-term leases where terms are 12 months or less as the payments are incurred. Our short-term lease cost for the period ended March 31, 2019 was \$0.1 million.

Supplemental balance sheet information related to leases was as follows:

	As of March 31, 2019
Operating leases:	
Operating lease right-of-use asset	\$ 18,876
Current operating lease liability	\$ 6,139
Operating lease liability - less current portion	13,782
Total operating lease liability	\$ 19,921
Finance leases:	
Property and equipment, at cost	\$ 1,692
Accumulated depreciation	(839)
Property and equipment, net	\$ 853
Current finance lease liability	\$ 307
Finance lease liability - less current portion	581
Total finance lease liability	\$ 888
Weighted Average Remaining Lease Term:	
Operating leases	4.8 years
Finance leases	3 years
Weighted Average Discount Rate:	
Operating leases	5.18%
Finance leases	5.06%

Supplemental cash flow information related to leases was as follows:

	Three Months Ended March 31, 2019
Cash paid for amounts included in the measurement of lease liabilities:	
Operating cash flows from operating leases	2,029
Operating cash flows from finance leases	12
Financing cash flows from finance leases	90
ROU assets obtained in exchange for lease obligations:	
Operating leases	5,400
Finance leases	—

Maturities of lease liabilities are as follows:

Year Ending December 31,	Operating leases		Finance leases	
2019 (excluding the first 3 months)	\$	5,347	\$	263
2020		5,592		319
2021		2,659		280
2022		2,314		71
2023		2,334		25
Thereafter		4,590		—
Total lease payments	\$	22,836	\$	958
Less imputed interest		(2,915)		(70)
Total	\$	19,921	\$	888

NOTE 18 – BUSINESS COMBINATIONS

On March 9, 2018, we acquired all of the outstanding shares of Laser Control Systems, a laser component technology business located in Bedfordshire, United Kingdom, which specializes in the design and manufacture of advanced digital scan heads and laser software, for a purchase price of \$1.7 million. An additional \$0.7 million in contingent consideration may be earned by the former owners if certain milestones are met. This acquisition supports our Photonics vertical and our long-term strategy to expand our presence and product portfolio in Photonics applications. The results of Laser Control Systems' operations as of and after the date of acquisition have been included in our condensed consolidated financial statements as of March 31, 2019 and December 31, 2018, and for the three months ended March 31, 2019 and March 31, 2018.

On March 16, 2018, we acquired all of the outstanding shares of Photocore AG, a vision-based 3D measurement application and software developer in Zurich, Switzerland, for a total purchase price of \$2.4 million. This acquisition supports our Construction BIM vertical and our long-term strategy to improve our existing software offerings with innovative technology in photogrammetry. The results of PhotoCore AG's operations as of and after the date of acquisition have been included in our condensed consolidated financial statements as of March 31, 2019 and December 31, 2018, and for the three months ended March 31, 2019 and March 31, 2018.

On July 6, 2018, we acquired all of the outstanding shares of Lanmark, a high-speed laser marking control boards and laser marking software provider located in Acton, Massachusetts, for a purchase price of \$6.3 million. An additional \$1.0 million in contingent consideration may be earned by the former owners if certain milestones are met. This acquisition supports the development of components used in new 3D laser inspection product development in order to further expand the product portfolio of our Photonics vertical. The results of Lanmark's operations as of and after the date of acquisition have been included in our condensed consolidated financial statements as of March 31, 2019 and December 31, 2018, and for the three months ended March 31, 2019.

On July 13, 2018, we acquired all of the issued and outstanding corporate capital of Opto-Tech SRL and its subsidiary Open Technologies SRL (collectively, "Open Technologies"), a 3D-structured light scanning solution company located in Brescia, Italy, for an aggregate purchase price of up to €18.5 million (\$21.6 million), subject to post-closing adjustments based on actual net working capital, net financial position and transaction expenses. The aggregate purchase price includes up to €4.0 million (\$4.7 million) in contingent consideration that may be earned by the former owners if certain product development milestones are met. The U.S. Dollar amounts have been converted from Euros based on the foreign exchange rate in effect on the closing date of the acquisition. This acquisition supports our 3D Design vertical and our long-term strategy to establish a presence in 3D measurement technology used in other industries and applications, especially dental and medical. The results of Open Technologies' operations as of and after the date of acquisition have been included in our condensed consolidated financial statements as of March 31, 2019 and December 31, 2018, and for the three months ended March 31, 2019.

The acquisitions of Laser Control Systems, Photocore AG, Lanmark and Open Technologies constitute business combinations as defined by ASC Topic 805. Accordingly, the assets acquired and liabilities assumed were recorded at their fair values on the date of acquisition. The purchase price allocations below represent our final determination of the fair value of the assets acquired and liabilities assumed for such acquisitions. In the three months ended March 31, 2019, certain refinements were booked for the Open Technologies acquisition as part of the finalization process, which included a reduction of \$2.6 million to the valuation of the customer relationship intangible and the recognition of a deferred tax liability of \$1.9 million. Goodwill increased \$4.5 million as a result of these changes in the finalization process.

Following is a summary of our allocations of the purchase price to the fair values of the assets acquired and liabilities assumed as of the date of each acquisition:

	Laser Control Systems	Photocore AG	Lanmark	Open Technologies ⁽²⁾
Accounts receivable	\$ —	\$ —	\$ 610	\$ 2,735
Inventory	—	—	299	1,852
Other assets	—	—	76	634
Intangible assets	1,400	1,435	1,366	7,821
Goodwill	928	1,010	5,355	13,573
Accounts payable and accrued liabilities	—	—	(159)	(2,926)
Other liabilities ⁽¹⁾	(579)	—	(971)	(5,201)
Deferred income tax liabilities	—	—	(325)	(1,876)
Total purchase price, net of cash acquired	\$ 1,749	\$ 2,445	\$ 6,251	\$ 16,612

⁽¹⁾ For Laser Control Systems, Lanmark and Open Technologies, this total consists primarily of the fair value of the projected contingent consideration.

⁽²⁾ Amounts converted from Euros to U.S. Dollars based on the foreign exchange rate on the closing date of the acquisition.

Following are the details of the purchase price allocated to the intangible assets acquired for the acquisitions noted above:

	Laser Control Systems		Photocore AG		Lanmark		Open Technologies	
	Amount	Weighted Average Life (Years)	Amount	Weighted Average Life (Years)	Amount	Weighted Average Life (Years)	Amount	Weighted Average Life (Years)
Trade name	\$ —	0	\$ —	0	\$ —	0	\$ —	0
Brand	26	1	22	1	26	1	103	1
Non-competition agreement	29	3	9	3	—	0	—	0
Technology	1,319	7	1,343	7	760	7	4,441	7
Customer relationship	26	10	61	10	580	10	3,277	10
Favorable in-place lease	—	0	—	0	—	0	—	0
Fair value of intangible assets acquired	\$ 1,400	7	\$ 1,435	7	\$ 1,366	8	\$ 7,821	8

The goodwill for the Laser Control Systems, Lanmark and Open Technologies acquisitions has been allocated to the Emerging Verticals reporting segment. The goodwill for the Photocore AG acquisition has been allocated to the Construction BIM reporting segment.

Acquisition and integration costs are not included as components of consideration transferred, but are recorded as expense in the period in which such costs are incurred. To date, we have incurred approximately \$0.8 million in acquisition and integration costs for the Laser Control Systems, Photocore AG, Lanmark and Open Technologies acquisitions. Pro forma financial results for Laser Control Systems, Photocore AG, Lanmark and Open Technologies have not been presented because the effects of these transactions, individually and in the aggregate, were not material to our consolidated financial results.

NOTE 19 – SUBSEQUENT EVENTS

On April 5, 2019, our Board appointed Michael D. Burger as our President and Chief Executive Officer, effective June 17, 2019, to succeed Dr. Simon Raab, who is retiring as our President and Chief Executive Officer and as a member of our Board of Directors on June 16, 2019. Also, on April 5, 2019, we entered into an Employment Agreement with Mr. Burger (the “Employment Agreement”), which is effective as of June 17, 2019. In accordance with the terms of the Employment Agreement, Mr. Burger’s initial compensation will consist of the following:

- *Base salary* - An annual base salary of \$700,000.
- *Transition to short-term incentive plan* - Because Mr. Burger will not be eligible to participate in our short-term incentive plan for 2019, he will be eligible to receive a target bonus of 100% of his base salary, pro-rated for the number of days he is employed by us during 2019, provided that he remains employed by us on December 31, 2019 and conditioned upon his achievement of certain performance goals established by the Compensation Committee of our Board (the “Compensation Committee”) and accepted in writing by Mr. Burger on April 5, 2019.
- *Short-term incentive plan* - Mr. Burger will be eligible to participate in our short-term incentive plan beginning in 2020, with a target payout of at least 100% of his base salary conditioned upon our achievement of the performance goals established by the Compensation Committee.
- *Long-term incentive plan* - Mr. Burger will be eligible to receive annual grants under our long-term incentive plan beginning in 2020, with a target value of at least \$2 million. Such grants are expected to be awarded in a combination of performance-based restricted stock units and time-based restricted stock units, in a ratio of 50% and 50%, respectively.
- *Sign-on equity grant* - Mr. Burger will be granted a one-time sign-on restricted stock unit award on June 17, 2019 with a target value of \$3 million. This equity grant will be comprised of a combination of performance-based restricted stock units and time-based restricted stock units, in a ratio of 50% and 50%, respectively. One-third of the time-based restricted stock units will vest on each of the first, second and third anniversaries of the grant date. The performance-based restricted stock units will be earned based on how our total shareholder return, or TSR, compares to the TSR of the Russell 2000 Growth Index during the performance period from June 17, 2019 to June 17, 2022 (the “Relative TSR”). If our Relative TSR during the performance period is (i) at the 55th percentile, 100% of the target performance-based restricted stock units awarded will be earned and will vest; (ii) at or above the 80th percentile, 200% of the target performance-based restricted stock units awarded will be earned and will vest, provided that if our TSR for the performance period is negative, the maximum percentage that may be earned is 100%; (iii) at the 25th percentile, 25% of the target performance-based restricted stock units awarded will be earned and will vest; and (iv) below the 25th percentile, no performance-based restricted stock units will be earned. The percentage of performance-based restricted stock units that is earned will be interpolated if Relative TSR is between the 25th and 80th percentiles during the performance period.
- *Signing bonus* - Mr. Burger will receive a one-time signing bonus equal to \$500,000 payable in a lump sum in cash within 30 days following June 17, 2019. Mr. Burger will be required to repay the signing bonus if, prior to June 17, 2021: (i) he voluntarily terminates his employment with us other than for “good reason” (as defined in the Employment Agreement), (ii) the Employment Agreement expires as a result of his election not to renew the annual term of the Employment Agreement, or (iii) his employment is terminated by us for “cause” (as defined in the Employment Agreement).
- *Relocation expenses* - Mr. Burger is entitled to receive reimbursement for the reasonable expenses he incurs in relocating to our headquarters location in Lake Mary, Florida. He will also be entitled to receive reimbursement for the reasonable expenses he incurs in returning to the U.S. West Coast if he is terminated by us without cause or we elect not to renew the annual term of the Employment Agreement.

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

The following information should be read in conjunction with the condensed consolidated financial statements, including the notes thereto, included elsewhere in this Form 10-Q and Management’s Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report on Form 10-K for the year ended December 31, 2018.

FARO Technologies, Inc. (“FARO,” the “Company,” “us,” “we” or “our”) has made “forward-looking statements” in this report (within the meaning of the Private Securities Litigation Reform Act of 1995). Statements that are not historical facts or that describe our plans, beliefs, goals, intentions, objectives, projections, expectations, assumptions, strategies, or future events are forward-looking statements. In addition, words such as “may,” “might,” “would,” “will,” “will be,” “future,” “strategy,” “believe,” “plan,” “should,” “could,” “seek,” “expect,” “anticipate,” “intend,” “estimate,” “goal,” “objective,” “project,” “forecast,” “target” and similar words identify forward-looking statements.

Forward-looking statements are not guarantees of future performance and are subject to a number of known and unknown risks, uncertainties, and other factors that could cause actual results to differ materially from those expressed or implied by such forward-looking statements. Consequently, undue reliance should not be placed on these forward-looking statements. We do not intend to update any forward-looking statements, whether as a result of new information, future events, or otherwise, unless otherwise required by law. Important factors that could cause actual results to differ materially from those contemplated in such forward-looking statements include, among others, the following:

- an economic downturn in the manufacturing industry or the domestic and international economies in the regions of the world where we operate;
- our inability to further penetrate our customer base and target markets;
- development by others of new or improved products, processes or technologies that make our products less competitive or obsolete;
- our inability to maintain what we believe to be our technological advantage by developing new products and enhancing our existing products;
- the results of our internal review and our outside legal counsel’s review of our pricing and other practices under our General Services Administration Federal Supply Schedule contracts, the outcome of the U.S. Government’s review of, or investigation into, our potential overcharging of the U.S. Government under such contracts, any resulting penalties, damages or sanctions imposed on us and the outcome of any resulting litigation to which we may become a party, loss of future government sales and potential impacts on customer and supplier relationships and our reputation;
- risks associated with expanding international operations, such as difficulties in staffing and managing foreign operations, increased political and economic instability, compliance with potentially evolving import and export regulations, and the burdens and potential exposure of complying with a wide variety of U.S. and foreign laws and labor practices;
- changes in trade regulation, which result in rising prices of imported steel, steel byproducts, aluminum and aluminum byproducts used as raw materials in the production of measurement devices, and our ability to pass those costs on to our customers or require our suppliers to absorb such costs;
- changes in foreign regulation which may result in rising prices of our measurement devices sold as exports to our international customers, our customers’ willingness to absorb incremental import tariffs, and the corresponding impact on our profitability;
- our inability to successfully identify and acquire target companies and achieve expected benefits from, and effectively integrate, acquisitions that are consummated;
- the cyclical nature of the industries of our customers and material adverse changes in our customers’ access to liquidity and capital;
- change in the potential for the computer-aided measurement (“CAM2”) market and the potential adoption rate for our products, which are difficult to quantify and predict;
- our inability to protect our patents and other proprietary rights in the United States and foreign countries;
- our inability to adequately establish and maintain effective internal controls over financial reporting;

- fluctuations in our annual and quarterly operating results and the inability to achieve our financial operating targets as a result of a number of factors including, without limitation (i) litigation and regulatory action brought against us, (ii) quality issues with our products, (iii) excess or obsolete inventory, shrinkage or other inventory losses due to product obsolescence, change in demand for our products, scrap or material price changes, (iv) raw material price fluctuations and other inflationary pressures, (v) expansion of our manufacturing capability, (vi) the size and timing of customer orders, (vii) the amount of time that it takes to fulfill orders and ship our products, (viii) the length of our sales cycle to new customers and the time and expense incurred in further penetrating our existing customer base, (ix) manufacturing inefficiencies associated with new product introductions, (x) costs associated with new product introductions, such as product development, marketing, assembly line start-up costs and low introductory period production volumes, (xi) the timing and market acceptance of new products and product enhancements, (xii) customer order deferrals in anticipation of new products and product enhancements, (xiii) the inability of our sales and marketing programs to achieve their sales targets, (xiv) start-up costs associated with opening new sales offices outside of the United States, (xv) fluctuations in revenue without proportionate adjustments in fixed costs, (xvi) inefficiencies in the management of our inventories and fixed assets, (xvii) compliance with government regulations including health, safety, and environmental matters, and (xviii) investment costs associated with the training and ramp-up time for new sales people;
- changes in gross margins due to a changing mix of products sold and the different gross margins on different products and sales channels;
- changes in applicable laws, rules or regulations, or their interpretation or enforcement, or the enactment of new laws, rules or regulations that apply to our business operations or require us to incur significant expenses for compliance;
- our inability to successfully comply with the requirements of the Restriction of Hazardous Substances Directive and the Waste Electrical and Electronic Equipment Directive in the European Union;
- the inability of our products to displace traditional measurement devices and attain broad market acceptance;
- the impact of competitive products and pricing on our current offerings;
- our ability to successfully complete our Chief Executive Officer transition or the loss of other key personnel;
- difficulties in recruiting research and development engineers and application engineers;
- the failure to effectively manage the effects of any future growth;
- the impact of reductions or projected reductions in government spending, or uncertainty regarding future levels of government expenditures, particularly in the defense sector;
- variations in our effective income tax rate, which makes it difficult to predict our effective income tax rate on a quarterly and annual basis, and the impact of the U.S. Tax Cuts and Jobs Act of 2017 (the “Tax Cuts Act”) on the global intangible low-taxed income of foreign subsidiaries;
- the loss of key suppliers and the inability to find sufficient alternative suppliers in a reasonable period of time or on commercially reasonable terms;
- the impact of fluctuations in exchange rates;
- the effect of estimates and assumptions with respect to critical accounting policies and the impact of the adoption of recently issued accounting pronouncements;
- the magnitude of increased warranty costs from new product introductions and enhancements to existing products;
- the sufficiency of our plants to meet manufacturing requirements;
- the continuation of our share repurchase program;
- the sufficiency of our working capital and cash flow from operations to fund our long-term liquidity requirements;
- the impact of geographic changes in the manufacturing or sales of our products on our effective income tax rate;
- our ability to comply with the requirements for favorable tax rates in foreign jurisdictions; and
- other risks and uncertainties discussed in Part I, Item 1A. Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2018.

Moreover, new risks and uncertainties emerge from time to time, and we undertake no obligation to update publicly or review the risks and uncertainties included in this Quarterly Report on Form 10-Q, unless otherwise required by law.

Overview

FARO Technologies, Inc. and its subsidiaries (collectively “FARO,” the “Company,” “us,” “we” or “our”) design, develop, manufacture, market and support software driven, three-dimensional (“3D”) measurement and imaging solutions. This technology permits high-precision 3D measurement, imaging and comparison of parts and complex structures within production and quality assurance processes. Our devices are used for inspection of components and assemblies, rapid prototyping, reverse engineering, documenting large volume or structures in 3D, surveying and construction, as well as for investigation and reconstruction of accident sites or crime scenes. We sell the majority of our products through a direct sales force across a broad number of customers in a range of manufacturing, industrial, architecture, surveying, building information modeling, construction, public safety forensics, cultural heritage, dental, and other applications. Our FaroArm[®], FARO ScanArm[®], FARO Laser Tracker[™], FARO Cobalt Array Imager, FARO Laser Projector, and their companion CAM2[®], BuildIT, and BuildIT Projector software solutions, provide for Computer-Aided Design (“CAD”) based inspection, factory-level statistical process control, high-density surveying and laser-guided assembly and production. Together, these products integrate the measurement, quality inspection, and reverse engineering functions with CAD and 3D software to improve productivity, enhance product quality, and decrease rework and scrap in the manufacturing process, mainly supporting applications in our 3D Manufacturing vertical. Our FARO Focus, Faro ScanPlan and FARO Scanner Freestyle^{3D} X laser scanners, and their companion FARO SCENE, BuildIT, FARO As-Built[™], and FARO Zone public safety forensics software offerings, are utilized for a wide variety of 3D modeling, documentation and high-density surveying applications in our Construction Building Information Modeling (“Construction BIM”) and Public Safety Forensics verticals. Our FARO ScanArm[®], FARO Cobalt Array Imager, FARO Scanner Freestyle^{3D} X laser scanners and their companion SCENE software, and other 3D-structured light scanning solutions specific to the dental industry also enable a fully digital workflow used to capture real world geometry for the purpose of empowering design, enabling innovation, and speeding up the design cycle, supporting our 3D Design vertical. Our line of galvanometer-based scan heads and laser scan controllers are used in a variety of laser applications and are integrated into larger components and systems, supporting our Photonics vertical.

We derive our revenues primarily from the sale of our measurement equipment and related multi-faceted software programs. Revenue related to these products is generally recognized upon shipment. In addition, we sell extended warranties and training and technology consulting services relating to our products. We recognize the revenue from extended warranties on a straight-line basis over the term of the warranty, and revenue from training and technology consulting services when the services are provided.

Historically, our sales have grown as a result of continuing market demand for and acceptance of our products, increased sales activity in part through additional sales staff worldwide, new product launches or enhancements, and acquisitions. Our historical financial performance may not be indicative of our future financial performance.

We operate in international markets throughout the world and maintain sales offices in Australia, Brazil, Canada, China, France, Germany, India, Italy, Japan, Malaysia, Mexico, the Netherlands, Poland, Portugal, Singapore, South Korea, Spain, Switzerland, Thailand, Turkey, the United Kingdom, and the United States.

We manufacture our FaroArm® and FARO ScanArm® products in our manufacturing facility located in Switzerland for customer orders from Europe, the Middle East and Africa, in our manufacturing facility located in Singapore for customer orders from the Asia-Pacific region, and in our manufacturing facility located in Florida for customer orders from the Americas. We manufacture our FARO Focus in our manufacturing facilities located in Germany and Switzerland for customer orders from Europe, the Middle East and Africa and the Asia-Pacific region, and in our manufacturing facility located in Pennsylvania for customer orders from the Americas. We manufacture our FARO Freestyle^{3D} X products in our facility located in Germany. We manufacture our FARO Laser Projector and FARO Laser TrackerTM products in our facility located in Pennsylvania. We manufacture our 3D-structured light scanning solutions specific to the dental industry in our engineering and manufacturing facility in Italy. We expect all of our existing manufacturing facilities to have the production capacity necessary to support our volume requirements through the remainder of 2019.

We account for wholly-owned foreign subsidiaries in the currency of the respective foreign jurisdiction; therefore, fluctuations in exchange rates may have an impact on the value of the intercompany account balances denominated in different currencies and reflected in our condensed consolidated financial statements. We are aware of the availability of off-balance sheet financial instruments to hedge exposure to foreign currency exchange rates, including cross-currency swaps, forward contracts and foreign currency options. However, we have not used such instruments in the past, and none were utilized in 2018 or the three months ended March 31, 2019.

We have sold our products and related services to the U.S. Government (the “Government”) under General Services Administration (“GSA”) Federal Supply Schedule contracts (the “GSA Contracts”) since 2002 and are currently selling our products and related services to the Government under two such GSA Contracts. Each GSA Contract is subject to extensive legal and regulatory requirements and includes, among other provisions, a price reduction clause (the “Price Reduction Clause”), which generally requires us to reduce the prices billed to the Government under the GSA Contracts to correspond to the lowest prices billed to certain benchmark customers.

Late in the fourth quarter of 2018, during an internal review we preliminarily determined that certain of our pricing practices may have resulted in the Government being overcharged under the Price Reduction Clauses of the GSA Contracts (the “GSA Matter”). On February 14, 2019, we reported the GSA Matter to the GSA and its Office of Inspector General.

Over the six-year period ended December 31, 2018, our sales to the Government under the GSA Contracts were approximately \$53.5 million in the aggregate. As a result of the GSA Matter, for the fourth quarter of 2018, we reduced our total sales by a \$4.8 million estimated cumulative sales adjustment, representative of the last six years of estimated overcharges to the Government under the GSA Contracts. In addition, for the fourth quarter of 2018, we recorded \$0.5 million of imputed interest related to the estimated cumulative sales adjustment, which increased other expense and resulted in an estimated total liability of \$5.3 million for the GSA Matter.

For the three months ended March 31, 2019, we recorded \$0.1 million of imputed interest related to the estimated cumulative sales adjustment for the six-year period ended December 31, 2018. Our estimated total liability for the GSA Matter is based on our preliminary review as of the date of this Quarterly Report on Form 10-Q and is subject to change based on the results of the review of our pricing and other practices under the GSA Contracts being conducted by our outside legal counsel and discussions with the Government.

Since the end of the first quarter of 2018, the following changes were made to our verticals and reporting segments:

- In the third quarter of 2018, we merged the historical Factory Metrology and 3D Machine Vision verticals into one vertical named “3D Factory” for greater consistency with our realigned reporting segments.
- In the third quarter of 2018, we segregated the operations of our acquisitions of Laser Control Systems Limited and Lanmark Controls, Inc., along with the operations resulting from our acquisition of substantially all of the assets of Instrument Associates, LLC d/b/a Nutfield Technology, into a vertical that we named “Photonics.” The creation of this vertical enables us to better focus on our product range directed at laser steering. These operations were historically reported in the 3D Factory reporting segment in the first six months of 2018 and the historical Factory Metrology reporting segment in 2017 and are now included in the Emerging Verticals (formerly known as “Other”) reporting segment.
- In the third quarter of 2018, we renamed our Product Design vertical “3D Design.”
- In the fourth quarter of 2018, we renamed our 3D Factory vertical and reporting segment “3D Manufacturing.”

There has been no change in our total consolidated financial condition or results of operations previously reported as a result of these changes in our verticals and reportable segments. The amounts related to our reporting segment information for the three months ended March 31, 2018 have been restated throughout this Quarterly Report on Form 10-Q to reflect the changes in our reporting segments. Each of our reporting segments continues to employ consistent accounting policies.

Amounts reported in millions within this Quarterly Report on Form 10-Q are computed based on the amounts in thousands. As a result, the sum of the components reported in millions may not equal the total amount reported in millions due to rounding. Certain columns and rows within the tables that follow may not add due to the use of rounded numbers. Percentages presented are calculated based on the respective amounts in thousands.

Results of Operations

The following table sets forth, for the periods indicated, our unaudited results of operations expressed as dollar amounts and as a percentage of total sales.

(dollars in thousands)	Three months ended March 31,			
	2019	% of Sales	2018	% of Sales
Sales				
Product	\$ 68,800	73.5 %	\$ 70,581	76.0 %
Service	24,817	26.5 %	22,253	24.0 %
Total sales	93,617	100.0 %	92,834	100.0 %
Cost of Sales				
Product	26,128	27.9 %	26,884	29.0 %
Service	12,470	13.3 %	12,164	13.1 %
Total cost of sales (exclusive of depreciation and amortization, shown separately below)	38,598	41.2 %	39,048	42.1 %
Gross Profit	55,019	58.8 %	53,786	57.9 %
Operating Expenses:				
Selling and marketing	26,753	28.6 %	28,271	30.5 %
General and administrative	13,224	14.1 %	11,073	11.9 %
Depreciation and amortization	4,749	5.1 %	4,343	4.7 %
Research and development	9,935	10.6 %	9,406	10.1 %
Total operating expenses	54,661	58.4 %	53,093	57.2 %
Income from operations	358	0.4 %	693	0.7 %
Other (income) expense				
Interest income, net	(144)	(0.2)%	(73)	(0.1)%
Other expense, net	195	0.2 %	184	0.2 %
Income before income tax expense	307	0.3 %	582	0.6 %
Income tax expense	155	0.2 %	127	0.1 %
Net income	\$ 152	0.2 %	\$ 455	0.5 %

Consolidated Results

Three Months Ended March 31, 2019 Compared to the Three Months Ended March 31, 2018

Sales. Total sales increased by \$0.8 million, or 0.8%, to \$93.6 million for the three months ended March 31, 2019 from \$92.8 million for the three months ended March 31, 2018. Total product sales decreased by \$1.8 million, or 2.5%, to \$68.8 million for the three months ended March 31, 2019 from \$70.6 million for the three months ended March 31, 2018. Our product sales decreased primarily due to the impact of changes in foreign currencies and a decrease in unit sales within our 3D Manufacturing reporting segment primarily driven by sales headcount turnover within the segment and changes to the segment's sales force structure, partially offset by an increase in unit sales within our Construction BIM and Emerging Verticals reporting segments. Service revenue increased by \$2.5 million, or 11.3%, to \$24.8 million for the three months ended March 31, 2019 from \$22.3 million for the three months ended March 31, 2018, primarily due to an increase in customer service revenue driven by the growth of our installed based and our focused sales initiatives to maintain customer relationships after the initial purchase of our measurement devices. Foreign exchange rates had a negative impact on sales of \$4.0 million, decreasing our overall sales growth rate by approximately 4.3 percentage points, primarily due to the weakening of the Euro, Chinese Yuan, Japanese Yen, and British Pound Sterling relative to the U.S. dollar.

Gross profit. Gross profit increased by \$1.2 million, or 2.3%, to \$55.0 million for the three months ended March 31, 2019 from \$53.8 million for the three months ended March 31, 2018, and gross margin increased to 58.8% for the three months ended March 31, 2019 from 57.9% for the three months ended March 31, 2018, primarily due to an increase in gross margin from service revenue, partially offset by the decrease in our product revenue. Gross margin from product revenue increased by 0.1 percentage points to 62.0% for the three months ended March 31, 2019 from 61.9% for the prior year period, primarily as a result of decreased costs associated with improved manufacturing efficiencies. Gross margin from service revenue increased by 4.5 percentage points to 49.8% for the three months ended March 31, 2019 from 45.3% for the prior year period, primarily as a result of service revenue growth and improved efficiencies in our customer service repair process.

Selling and marketing expenses. Selling and marketing expenses decreased by \$1.5 million, or 5.4%, to \$26.8 million for the three months ended March 31, 2019 from \$28.3 million for the three months ended March 31, 2018. This decrease was driven primarily by a decrease in selling commission expense due to a reduction in our product sales, a decrease in travel expenses and lower marketing expenses, partially offset by our investment in increased selling headcount as part of our global initiatives to drive sales growth and the related increase in compensation expense. Selling and marketing expenses as a percentage of sales decreased to 28.6% for the three months ended March 31, 2019, compared with 30.5% of sales for the three months ended March 31, 2018. Our worldwide period-ending selling headcount increased by 84, or 12.9%, to 737 at March 31, 2019, from 653 at March 31, 2018.

General and administrative expenses. General and administrative expenses increased by \$2.1 million, or 19.4%, to \$13.2 million for the three months ended March 31, 2019 from \$11.1 million for the three months ended March 31, 2018. This increase was mostly due to an aggregate incremental cost of \$1.8 million related to our Chief Executive Officer (“CEO”) succession, as we recognized additional compensation expense during the first quarter of 2019 in connection with the outstanding stock-based awards held by Dr. Raab, the vesting of which will accelerate upon his retirement, and the advisory fees incurred related to the GSA Matter. General and administrative expenses increased to 14.1% of sales for the three months ended March 31, 2019 from 11.9% of sales for the three months ended March 31, 2018.

Depreciation and amortization expenses. Depreciation and amortization expenses increased by \$0.4 million, or 9.3%, to \$4.7 million for the three months ended March 31, 2019 from \$4.3 million for the three months ended March 31, 2018. This increase was driven primarily by higher amortization of intangible assets related to our 2018 acquisitions.

Research and development expenses. Research and development expenses increased by \$0.5 million, or 5.6%, to \$9.9 million for the three months ended March 31, 2019 from \$9.4 million for the three months ended March 31, 2018. This increase was mainly driven by higher compensation expense resulting from increased engineering headcount due to our 2018 acquisitions. Research and development expenses as a percentage of sales increased to 10.6% for the three months ended March 31, 2019 from 10.1% for the three months ended March 31, 2018.

Other expense, net. We had other expense of \$0.1 million for each of the three months ended March 31, 2019 and March 31, 2018. These amounts were primarily driven by the effect of foreign exchange rates on the value of intercompany account balances of our subsidiaries denominated in other currencies.

Income tax expense. Income tax expense increased by less than \$0.1 million, or 22.0%, to \$0.2 million for the three months ended March 31, 2019 from \$0.1 million for the three months ended March 31, 2018. Our effective tax rate was 50.5% for the three months ended March 31, 2019 compared with 21.8% in the prior year period. The changes in our income tax expense and our effective tax rate were primarily due to the mix of jurisdictions where we earned pretax book income or incurred a pretax book loss during the three months ended March 31, 2019 compared to the same period in the prior year.

Our quarterly estimate of our annual effective tax rate and our quarterly provision for income tax expense are subject to significant variation due to numerous factors, including variability in accurately predicting our pretax and taxable income or loss and the mix of jurisdictions to which they relate, as well as the amount of pretax income or loss recognized during the quarter.

Net income. Our net income was \$0.2 million for the three months ended March 31, 2019 compared to net income of \$0.5 million for the prior year period, reflecting the impact of the factors described above.

Segment Results

We use segment profit to evaluate the performance of our reportable segments, which are 3D Manufacturing, Construction BIM and Emerging Verticals. Segment profit is calculated as gross profit less selling and marketing expenses for the reporting segment. The discussion of segment results for the three months ended March 31, 2019 and 2018 presented below is based on segment profit, as described above, and segment profit as a percent of sales, which is calculated as segment profit divided by total sales for such reporting segment, which we believe will aid investors in understanding and analyzing our operating results. Our definition of segment profit may not be comparable to similarly-titled measures reported by other companies. For additional information, including a reconciliation of segment profit to income from operations, see Note 15 – Segment Reporting, in Part I, Item 1 of this Quarterly Report on Form 10-Q.

For a description of the changes made to our verticals and reporting segments since the end of the first quarter of 2018, see the “Overview” section above. The amounts related to our reporting segment information for the three months ended March 31, 2018 have been restated below to reflect the changes in our reporting segments.

Three Months Ended March 31, 2019 Compared to the Three Months Ended March 31, 2018

Total sales by segment for the three months ended March 31, 2019 and March 31, 2018 were as follows (in thousands):

	Three Months Ended			
	March 31, 2019	% of Total	March 31, 2018	% of Total
3D Manufacturing	\$ 56,567	60.4%	\$ 60,657	65.4%
Construction BIM	25,440	27.2%	22,682	24.4%
Emerging Verticals	11,610	12.4%	9,495	10.2%
Total sales	<u>\$ 93,617</u>		<u>\$ 92,834</u>	

3D Manufacturing

(dollars in thousands)

	Three Months Ended	
	March 31, 2019	March 31, 2018
Total sales	\$ 56,567	\$ 60,657
Segment profit	\$ 19,170	\$ 18,425
Segment profit as a % of 3D Manufacturing segment sales	33.9%	30.4%

Sales. Total sales in our 3D Manufacturing segment decreased by \$4.1 million, or 6.7%, to \$56.6 million for the three months ended March 31, 2019 from \$60.7 million in the prior year period. This decrease was due to a decrease in product units sold primarily driven by sales headcount turnover within the segment and changes to the segment’s sales force structure, partially offset by continued growth in service revenue.

Segment profit. Segment profit in our 3D Manufacturing segment increased by \$0.8 million, or 4.1%, to \$19.2 million for the three months ended March 31, 2019 from \$18.4 million in the prior year period. This increase was primarily driven by service revenue growth and a decrease in selling expense due to lower sales commissions and a decrease in travel expenses, partially offset by lower product units sold.

Construction BIM

(dollars in thousands)

	Three Months Ended	
	March 31, 2019	March 31, 2018
Total sales	\$ 25,440	\$ 22,682
Segment profit	\$ 8,427	\$ 6,451
Segment profit as a % of Construction BIM segment sales	33.1%	28.4%

Sales. Total sales in our Construction BIM segment increased by \$2.7 million, or 12.2%, to \$25.4 million for the three months ended March 31, 2019 from \$22.7 million in the prior year period, primarily due to increases in product unit sales and service revenue.

Segment profit. Segment profit in our Construction BIM segment increased by \$2.1 million, or 30.6%, to \$8.4 million for the three months ended March 31, 2019 from \$6.5 million in the prior year period, primarily driven by the increase in product unit sales and an increase in product gross margin reflecting improved manufacturing efficiencies.

Emerging Verticals

(dollars in thousands)

	Three Months Ended	
	March 31, 2019	March 31, 2018
Total sales	\$ 11,610	\$ 9,495
Segment profit	\$ 669	\$ 639
Segment profit as a % of Emerging Verticals segment sales	5.8%	6.7%

Sales. Total sales in our Emerging Verticals segment increased by \$2.1 million, or 22.3%, to \$11.6 million for the three months ended March 31, 2019 from \$9.5 million in the prior year period, primarily due to higher sales in our 3D Design and Photonics verticals, as we continue to strategically invest in new markets both through acquisition and organically.

Segment profit. Segment profit in our Emerging Verticals segment was \$0.7 million for the three months ended March 31, 2019 compared to \$0.6 million in the prior year period. This increase of \$0.1 million was primarily due to the sales growth in our Photonics vertical.

Liquidity and Capital Resources

Cash and cash equivalents increased by \$1.9 million to \$110.7 million at March 31, 2019 from \$108.8 million at December 31, 2018. The increase was primarily driven by net cash provided by operating activities, partially offset by net cash used in investing and financing activities. Cash provided by operating activities was \$5.8 million during the three months ended March 31, 2019, compared to cash used in operations of \$4.0 million during the three months ended March 31, 2018. The change was mainly due to changes in working capital accounts, primarily a decrease in accounts receivable and prepaid expenses and other current assets, partially offset by a decrease in accounts payable and accrued liabilities and an increase in inventory.

Cash used in investing activities during the three months ended March 31, 2019 was \$2.1 million compared to \$6.9 million during the three months ended March 31, 2018. The decrease was primarily due to \$4.0 million in cash paid for acquisitions during the three months ended March 31, 2018 compared to no acquisition activity during the same period in 2019.

Cash used in financing activities was \$1.2 million during the three months ended March 31, 2019 compared to cash provided by financing activities of \$6.7 million for the three months ended March 31, 2018. The change was primarily due to \$6.8 million in cash received from the exercise of employee stock options during the three months ended March 31, 2018 compared to \$0.3 million during the three months ended March 31, 2019. This change was partially offset by the payments for taxes related to the net share settlement of equity awards of \$1.1 million during the three months ended March 31, 2019 compared to no payments related to the net share settlement of equity awards during the three months ended March 31, 2018.

Of our cash and cash equivalents, \$77.2 million was held by foreign subsidiaries as of March 31, 2019. On December 22, 2017, the United States enacted the Tax Cuts Act, resulting in significant modifications to existing tax law, which included a transition tax on the mandatory deemed repatriation of foreign earnings. Despite the changes in U.S. tax law, our current intent is to indefinitely reinvest these funds in our foreign operations, as the cash is needed to fund ongoing operations.

On November 24, 2008, our Board of Directors approved a \$30.0 million share repurchase program. Acquisitions for the share repurchase program may be made from time to time at prevailing prices, as permitted by securities laws and other legal requirements, and subject to market conditions and other factors. The share repurchase program may be discontinued at any time. There is no expiration date or other restriction governing the period over which we can repurchase shares under the program. In October 2015, our Board of Directors authorized an increase to the existing share repurchase program from \$30.0 million to \$50.0 million. We made no stock repurchases during the three month period ended March 31, 2019 under this program. As of March 31, 2019, we had authorization to repurchase \$18.3 million remaining under the repurchase program.

We believe that our working capital and anticipated cash flow from operations will be sufficient to fund our long-term liquidity operating requirements for at least the next 12 months.

We have no off-balance sheet arrangements.

Contractual Obligations and Commercial Commitments

We enter into purchase commitments for products and services in the ordinary course of business. These purchases generally cover production requirements for 60 to 120 days as well as materials necessary to service customer units through the product lifecycle and for warranty commitments. As of March 31, 2019, we had \$45.0 million in purchase commitments that are expected to be delivered within the next 12 months. Other than as described in the preceding sentences, there have been no material changes to the contractual obligations and commercial commitments table included in Part II, Item 7 of our Annual Report on Form 10-K for the year ended December 31, 2018.

Critical Accounting Policies

The preparation of our condensed consolidated financial statements requires our management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, and expenses, as well as disclosure of contingent assets and liabilities. We base our estimates on historical experience, along with various other factors believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Some of these judgments can be subjective and complex and, consequently, actual results may differ from these estimates under different assumptions or conditions. A discussion of our critical accounting policies is included in Part II, Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our Annual Report on Form 10-K for the year ended December 31, 2018, as filed with the Securities and Exchange Commission on February 21, 2019. As of March 31, 2019, our critical accounting policies have not changed from those described in our Annual Report on Form 10-K for the year ended December 31, 2018.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Foreign Exchange Exposure

We conduct a significant portion of our business outside the United States. As of and for the three months ended March 31, 2019, 62% of our revenue was invoiced, and a significant portion of our operating expenses were paid, in foreign currencies, and 48% of our assets were denominated in foreign currencies. Fluctuations in exchange rates between the U.S. dollar and such foreign currencies may have a material effect on our results of operations and financial condition and could specifically result in foreign exchange gains and losses. The impact of future exchange rate fluctuations on the results of our operations cannot be accurately predicted due to our constantly changing exposure to various currencies, and the fact that all foreign currencies do not react in the same manner in relation to the U.S. dollar. Our most significant exposures are to the Euro, Swiss Franc, Japanese Yen, Chinese Yuan and Brazilian Real. To the extent that the percentage of our non-U.S. dollar revenues derived from international sales increases in the future, our exposure to risks associated with fluctuations in foreign exchange rates may increase. We are aware of the availability of off-balance sheet financial instruments to hedge exposure to foreign currency exchange rates, including cross-currency swaps, forward contracts and foreign currency options. However, we have not used such instruments in the past, and none were utilized in 2018 or the three months ended March 31, 2019.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

We are responsible for establishing and maintaining disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”), that are designed to provide reasonable assurance that information required to be disclosed in our reports filed under the Exchange Act, such as this Quarterly Report on Form 10-Q, is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission’s (“SEC’s”) rules and forms. Disclosure controls and procedures also include, without limitation, controls and procedures that are designed to provide reasonable assurance that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act) as of March 31, 2019. Based on that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of March 31, 2019 to provide reasonable assurance that information required to be disclosed in this Quarterly Report on Form 10-Q was recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms and was accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Changes in Internal Control Over Financial Reporting

During the quarter ended March 31, 2019, there was no change in our internal control over financial reporting (as such term is defined in Rule 13a-15(f) under the Exchange Act) that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are not involved in any legal proceedings, including routine litigation arising in the normal course of business, that we believe will have a material adverse effect on our business, financial condition or results of operations.

Item 1A. Risk Factors

In addition to the other information set forth in this Quarterly Report on Form 10-Q, you should carefully consider the factors discussed under “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2018, as filed with the SEC, and in this Item 1A before deciding to invest in, or retain, shares of our common stock. These risks could materially and adversely affect our business, financial condition, and results of operations. The risks described in our Annual Report on Form 10-K for the year ended December 31, 2018 are not the only risks we face. Our operations could also be affected by additional factors that are not presently known by us or by factors that we currently consider to be immaterial to our business. As of March 31, 2019, there have been no material changes in our risk factors from those set forth in our Annual Report on Form 10-K for the year ended December 31, 2018.

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

Purchases of Equity Securities by the Issuer Under the Share Repurchase Plan

On November 24, 2008, our Board of Directors approved a \$30.0 million share repurchase program. Acquisitions for the share repurchase program may be made from time to time at prevailing prices, as permitted by securities laws and other legal requirements, and subject to market conditions and other factors. The share repurchase program may be discontinued at any time. There is no expiration date or other restriction governing the period over which we can repurchase shares under the program. In October 2015, our Board of Directors authorized an increase to the existing share repurchase program from \$30.0 million to \$50.0 million. We made no stock repurchases during the three month period ended March 31, 2019 under this program. As of March 31, 2019, we had authorization to repurchase \$18.3 million remaining under the repurchase program.

Item 6. Exhibits

INDEX TO EXHIBITS

3.1	Amended and Restated Articles of Incorporation, as amended (Filed as Exhibit 3.1 to our Registration Statement on Form S-1/A filed September 10, 1997, No. 333-32983, and incorporated herein by reference)
3.2	Amended and Restated Bylaws (Filed as Exhibit 3.1 to our Current Report on Form 8-K, filed February 3, 2010 and incorporated herein by reference, SEC File No. 000-23081)
4.1	Specimen Stock Certificate (Filed as Exhibit 4.1 to our Registration Statement on Form S-1/A filed September 10, 1997, No. 333-32983, and incorporated herein by reference)
10.1	Letter agreement between FARO Technologies, Inc. and Dr. Simon Raab dated January 9, 2019 (Filed as Exhibit 10.1 to our Current Report on Form 8-K, filed January 11, 2019 and incorporated herein by reference)
10.2	Second Amendment to Amended and Restated Lease Agreement between Emma Investments, LLC and FARO Technologies, Inc., dated as of January 29, 2019 (Filed as Exhibit 10.1 to our Current Report on Form 8-K, filed January 31, 2019 and incorporated herein by reference)
10.3	Second Amendment to Office Flex Lease between RCS - Tech Park, LLC and FARO Technologies, Inc., dated as of February 27, 2019 (Filed as Exhibit 10.1 to our Current Report on Form 8-K, filed March 5, 2019 and incorporated herein by reference)
10.4	FARO Technologies, Inc. Executive Severance Plan and Summary Plan Description, dated as of February 14, 2019 (Filed as Exhibit 10.27 to our Annual Report on Form 10-K for the year ended December 31, 2018, and incorporated herein by reference)
10.5	Form of 2019 Restricted Stock Unit Award Agreement under the 2014 Incentive Plan
10.6	Form of 2019 Restricted Stock Unit Award Agreement (Performance-Based) under the 2014 Incentive Plan
31-A	Certification of the President and Chief Executive Officer Pursuant to Rule 13a-14(a)/15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31-B	Certification of the Chief Financial Officer Pursuant to Rule 13a-14(a)/15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32-A	Certification of the President and Chief Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32-B	Certification of the Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Labels Linkbase Document
101.PRE	XBRL Taxonomy Presentation Linkbase Document

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.

FARO Technologies, Inc.

(Registrant)

Date: May 1, 2019

By: /s/ Robert Seidel

Name: Robert Seidel

Title: Chief Financial Officer

(Duly Authorized Officer and Principal Financial Officer)

**FARO Technologies, Inc. 2014 Incentive Plan
Restricted Stock Unit Award Agreement**

You have been selected to participate in the FARO Technologies, Inc. 2014 Incentive Plan (the "Plan"), as specified below:

Grantee:

Grant Date: February 25, 2019

Number of Restricted Stock Units Granted:

THIS RESTRICTED STOCK UNIT AWARD AGREEMENT (this "Agreement") evidences the grant of restricted stock units (the "Restricted Stock Units") by FARO Technologies, Inc., a Florida corporation (the "Company"), to the Grantee named above, on the date indicated above, pursuant to the provisions of the Plan.

This Agreement and the Plan contain the terms and conditions governing the Restricted Stock Units. If there is any inconsistency between the terms of this Agreement and the terms of the Plan, the Plan's terms shall completely supersede and replace the conflicting terms of this Agreement. All capitalized terms shall have the meanings ascribed to them in the Plan, unless specifically set forth otherwise herein. The parties hereto agree as follows:

1. Award of Restricted Stock Units. The Company hereby grants to the Grantee the number of Restricted Stock Units set forth above, subject to the terms and conditions of the Plan and this Agreement. Each Restricted Stock Unit represents the right to receive, once vested, one Share (or, in the Committee's or its authorized delegates' discretion, the Fair Market Value as of the Restricted Stock Unit vesting date of one Share). Prior to their settlement or forfeiture in accordance with the terms of this Agreement, the Restricted Stock Units granted to the Grantee will be credited to an account in the Grantee's name maintained by the Company. This account shall be unfunded and maintained for book-keeping purposes only, with the Restricted Stock Units simply representing an unfunded and unsecured contingent obligation of the Company.

2. Vesting of Restricted Stock Units; Forfeiture. One-third of the Restricted Stock Units will vest on each of the first, second and third anniversaries of the Grant Date. To the extent that one-third of the Restricted Stock Units is not a whole number, any fractional Restricted Stock Units that would otherwise be scheduled to vest on the first two scheduled vesting dates will be disregarded, and the number of Restricted Stock Units scheduled to vest on the third scheduled vesting date will be adjusted accordingly. If the Grantee's employment with or service to the Company or an Affiliate is terminated prior to the date the Restricted Stock Units are vested, the Restricted Stock Units that have not yet vested as of the date of such termination will be immediately forfeited without further consideration or any act or action by the Grantee; provided, however, if, prior to the date the Restricted Stock Units have vested, the Grantee's employment with or service to the Company or an Affiliate terminates as a result of death or Disability, the Committee, in its sole discretion, shall have the right to immediately vest all or any portion of such Restricted Stock Units, subject to such terms as the Committee, in its sole discretion, deems appropriate.

3. Settlement of Restricted Stock Units. Subject to all terms and conditions of the Plan and to compliance with section 5 of this Agreement, each vested Restricted Stock Unit will be settled in one Share (or, as provided in Section 1, the Fair Market Value thereof as of the Restricted Stock Unit's vesting date), as soon as reasonably practicable following the vesting date (but no later than the 15th day of the third calendar month following the vesting date). If settled in cash, the Grantee will receive a cash amount in payment and settlement of the vested Restricted Stock Units equal to the product of the Fair Market Value of a Share on the applicable vesting date, multiplied by the number of vested Restricted Stock Units. If settled in Shares, the Grantee will receive one Share in payment and settlement of each vested Restricted Stock Unit, and such Shares will be registered in the Grantee's name on the books of the Company as of the vesting date.

4. Nontransferability of the Award. This Award shall not be transferable by the Grantee otherwise than by will or the laws of descent and distribution or as otherwise expressly permitted pursuant to the Plan.

5. Tax Withholding. When the Restricted Stock Units become taxable income to the Grantee, the Company may deduct and withhold from any cash otherwise payable to the Grantee (whether payable with respect to the Restricted Stock Units or as salary, bonus or other compensation) such amount as may be required for the purpose of satisfying the Company's obligation to withhold Federal, state or local taxes or foreign taxes or other social insurance amounts. Further, in the event the amount so withheld is insufficient for such purpose, the Company may require that the Grantee upon its demand or otherwise make arrangements satisfactory to the Company for payment of such amount as may be requested by the Company in order to satisfy its obligation to withhold any such taxes. In any case where a tax is required to be withheld in connection with the delivery of Shares under this Agreement, the Grantee shall be permitted to satisfy the Company's tax withholding requirements by making a written election (in accordance with such rules and regulations and in such form as the Committee may determine) to have the Company withhold Shares otherwise issuable to the Grantee pursuant to the vesting of the Restricted Stock Units (the "Withholding Election") having a Fair Market Value on the date income is recognized (the "Tax Date") equal to the minimum amount required to be withheld. If the number of Shares withheld to satisfy withholding tax requirements shall include a fractional share, the number of Shares withheld shall be reduced to the next lower whole number and the Grantee shall deliver cash in lieu of such fractional share, or otherwise make arrangements satisfactory to the Company for payment of such amount. A Withholding Election must be received by the Corporate Secretary of the Company on or prior to the Tax Date.

6. Status of Grantee. The Grantee shall not be deemed for any purposes to be a shareholder of the Company with respect to any of the Restricted Stock Units unless and until they are settled in Shares and registered in the Grantee's name on the books of the Company, in accordance with section 3 above, upon vesting of the Restricted Stock Units. Neither the Plan nor this Agreement shall confer upon the Grantee any right to continue in the employ of the Company or any of its Affiliates, nor to interfere in any way with the right of the Company to terminate the employment of the Grantee at any time. In no event shall the value, at any time, of this Award, the Shares underlying this Award or any other benefit provided by this Agreement be included as compensation or earnings for purposes of any other compensation, retirement or benefit plan offered to employees of the Company or its subsidiaries unless otherwise specifically provided for in such plan.

7. Powers of the Company Not Affected. The existence of this Award shall not affect in any way the right or power of the Company or its shareholders to make or authorize any or all adjustments, recapitalizations, reorganizations or other changes in the Company's capital structure or its business, or any merger or consolidation of the Company, or any issuance of bonds, debentures, preferred or prior preference stock senior to or affecting the Shares or the rights thereof, or dissolution or liquidation of the Company, or any sale or transfer of all or any part of the Company's assets or business or any other corporate act or proceeding, whether of a similar character or otherwise.

8. Interpretation by Committee. As a condition of the granting of the Restricted Stock Units, the Grantee agrees, for himself or herself and his or her legal representatives or guardians, that this Agreement shall be interpreted by the Committee and that any interpretation by the Committee of the terms of this Agreement and any determination made by the Committee pursuant to this Agreement shall be final, binding and conclusive.

9. Nature of the Award. The Grantee acknowledges and agrees that he or she understands that the value that may be realized, if any, from this Award is contingent, and depends on the future market price of the Company's Stock, among other factors. The Grantee further confirms his or her understanding that this Award is intended to promote employee retention and stock ownership and to align employees' interests with those of shareholders, is subject to vesting conditions and will be forfeited if vesting conditions are not satisfied.

The Grantee also acknowledges and agrees that he or she understands that (a) the Plan is discretionary in nature and may be suspended or terminated by the Company at any time; (b) the grant of an Award is voluntary and occasional and does not create any contractual or other right to receive future awards, or benefits in lieu of Awards even if Awards have been granted repeatedly in the past; (c) all decisions with respect to any future award will be at the sole discretion of the Company; (d) the Grantee's participation in the Plan is voluntary; (e) the value of this Award is an extraordinary item of compensation which is outside the scope of the Grantee's employment contract with his or her actual employer, if any; (f) this Award and past or future awards are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments; and (g) no claim or entitlement to compensation or damages arises from termination of this Award or diminution in value of this Award, and the Grantee irrevocably releases the Company and its Affiliates from any such claim that may arise.

10. Administration. The Grantee acknowledges and agrees that he or she understands that the Company and its Affiliates hold certain personal information about him or her, including, but not limited to, information such as his or her name, home address, telephone number, date of birth, salary, nationality, job title, social security number, social insurance number or other such tax identity number and details of all Awards or other entitlement to shares of Stock awarded, cancelled, exercised, vested, unvested or outstanding in the Grantee's favor ("Personal Data").

The Grantee acknowledges and agrees that he or she understands that in order for the Company to process this Award and maintain a record of Shares under the Plan, the Company shall collect, use, transfer and disclose Personal Data within the Company and among its Affiliates electronically or otherwise, as necessary for the implementation and administration of the Plan including, in the case of a social insurance number, for income reporting purposes as required by law. The Grantee further understands that the Company may transfer Personal Data, electronically or otherwise, to third parties, including but not limited to such third parties as outside tax, accounting, technical and legal consultants when such third parties are assisting the Company or its Affiliates in the implementation and administration of the Plan. The Grantee understands that such recipients may be located within the jurisdiction of his or her residence, or within the United States or elsewhere and are subject to the legal requirements in those jurisdictions. The Grantee understands that the employees of the Company, its Affiliates and third parties performing work related to the implementation and administration of the Plan shall have access to the Personal Data as is necessary to fulfill their duties related to the implementation and administration of the Plan. By accepting this Award, the Grantee consents, to the fullest extent permitted by law, to the collection, use, transfer and disclosure, electronically or otherwise, of the Grantee's Personal Data by or to such entities for such purposes and accepts that this may involve the transfer of Personal Data to a country which may not have the same level of data protection law as the country in which this Agreement is executed. The Grantee confirms that if he or she has provided or, in the future, will provide Personal Data concerning third parties including beneficiaries, he or she has the consent of such third party to provide their Personal Data to the Company for the same purposes.

The Grantee understands that he or she may, at any time, request to review the Personal Data and require any necessary amendments to it by contacting the Company in writing. As well, the Grantee may always elect to for-go participation in the Plan or any other award program.

11. Miscellaneous.

(a) This Agreement and the rights of the Grantee hereunder are subject to all the terms and conditions of the Plan, as the same may be amended from time to time, as well as to such rules and regulations as the Committee may adopt for administration of the Plan. The Committee shall have the right to impose such restrictions on any Shares acquired pursuant to the Award, as it may deem advisable, including, without limitation, restrictions under applicable federal securities laws, under applicable federal and state tax law, under the requirements of any stock exchange or market upon which such Shares are then listed and/or traded, and under any blue sky or state securities laws applicable to such Shares.

(b) It is expressly understood that the Committee is authorized to administer, construe, and make all determinations necessary or appropriate to the administration of the Plan and this Agreement, all of which shall be binding upon the Grantee.

(c) The Grantee agrees to take all steps necessary to comply with all applicable provisions of federal and state securities and tax laws in exercising his or her rights under this Agreement.

(d) This Agreement shall be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.

(e) All obligations of the Company under the Plan and this Agreement shall be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase of all or substantially all of the business and/or assets of the Company, or the result of a merger, consolidation or otherwise.

(f) The award of Restricted Stock Units as provided in this Agreement and any issuance of Shares or payment pursuant to this Agreement are intended to be exempt from Section 409A of the Code under the short-term deferral exception specified in Treas. Reg. § 1.409A-1(b)(4).

(g) The Company may, in its sole discretion, decide to deliver any documents related to current or future participants in the Plan by electronic means. The Grantee hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through an on-line or electronic system established and maintained by the Company or a third party designated by the Company.

(h) To the extent not preempted by federal law, this Agreement shall be governed by, and construed in accordance with, the laws of the State of Florida.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the Grant Date.

FARO TECHNOLOGIES, INC.

By:

Name:

Title:

GRANTEE

Name:

**FARO Technologies, Inc. 2014 Incentive Plan
Restricted Stock Unit Award Agreement
(Performance-Based)**

You have been selected to participate in the FARO Technologies, Inc. 2014 Incentive Plan (the “Plan”), as specified below:

Grantee:

Grant Date: February 25, 2019

Target Number of Restricted Stock Units:

Maximum Number of Restricted Stock Units:

THIS RESTRICTED STOCK UNIT AWARD AGREEMENT (this “Agreement”) evidences the grant of restricted stock units (the “Restricted Stock Units”) by FARO Technologies, Inc., a Florida corporation (the “Company”), to the Grantee named above, on the date indicated above, pursuant to the provisions of the Plan.

This Agreement and the Plan contain the terms and conditions governing the Restricted Stock Units. If there is any inconsistency between the terms of this Agreement and the terms of the Plan, the Plan’s terms shall completely supersede and replace the conflicting terms of this Agreement. All capitalized terms shall have the meanings ascribed to them in the Plan, unless specifically set forth otherwise herein. The parties hereto agree as follows:

1. Award of Restricted Stock Units. The Company hereby confirms the grant to you, as of the Grant Date and subject to the terms and conditions of this Agreement and the Plan, of an award of Restricted Stock Units in an amount initially equal to the Target Number of Restricted Stock Units specified above. The number of Restricted Stock Units that may actually be earned and become eligible to vest pursuant to this Award can be between 0% and 200% of the Target Number of Restricted Stock Units, but may not exceed the Maximum Number of Restricted Stock Units specified above. Each Restricted Stock Unit that is earned as a result of the performance goals specified in Exhibit A to this Agreement having been satisfied and which thereafter vests represents the right to receive one Share (or, in the Committee’s or its authorized delegates’ discretion, the Fair Market Value as of the Restricted Stock Unit vesting date of one Share). Prior to their settlement or forfeiture in accordance with the terms of this Agreement, the Restricted Stock Units granted to the Grantee will be credited to an account in the Grantee’s name maintained by the Company. This account shall be unfunded and maintained for book-keeping purposes only, with the Restricted Stock Units simply representing an unfunded and unsecured contingent obligation of the Company.

2. Vesting of Restricted Stock Units; Forfeiture. Except as otherwise provided herein and in the Plan, the number of Restricted Stock Units determined to have been earned in accordance with Exhibit A attached hereto as of the end of the Performance Period specified in Exhibit A will vest on the date the Committee certifies such performance results (assuming Grantee’s Continuous Service to the Company through such date), which shall be no later than March 30, 2022 (the “Scheduled Vesting Date”). Except as otherwise provided in Exhibit A, if the Grantee’s employment with or service to the Company or an Affiliate is terminated prior to the date the Restricted Stock Units are vested, the Restricted Stock Units that have not yet vested as of the date of such termination will be immediately forfeited without further consideration or any act or action by the Grantee; provided, however, if, prior to the date the Restricted Stock Units have vested, the Grantee’s employment with or service to the Company or an Affiliate terminates as a result of death or Disability, the Committee, in its sole discretion, shall have the right to immediately vest all or any portion of such Restricted Stock Units, subject to such terms as the Committee, in its sole discretion, deems appropriate.

3. Settlement of Restricted Stock Units. Subject to all terms and conditions of the Plan and to compliance with section 5 of this Agreement, each vested Restricted Stock Unit will be settled in one Share (or, as provided in Section 1, the Fair Market Value thereof as of the Restricted Stock Unit’s vesting date), as soon as reasonably practicable following the vesting date (but no later than the 15th day of the third calendar month following the vesting date). If settled in cash, the Grantee will receive a cash amount in payment and settlement of the vested Restricted Stock Units equal to the product of the Fair Market Value of a Share on the applicable vesting date, multiplied by the number of vested Restricted Stock Units. If settled in Shares, the Grantee will receive one Share in payment and settlement of each vested Restricted Stock Unit, and such Shares will be registered in the Grantee’s name on the books of the Company as of the vesting date.

4. Nontransferability of the Award. This Award shall not be transferable by the Grantee otherwise than by will or the laws of descent and distribution or as otherwise expressly permitted pursuant to the Plan.

5. Tax Withholding. When the Restricted Stock Units become taxable income to the Grantee, the Company may deduct and withhold from any cash otherwise payable to the Grantee (whether payable with respect to the Restricted Stock Units or as salary, bonus or other compensation) such amount as may be required for the purpose of satisfying the Company's obligation to withhold Federal, state or local taxes or foreign taxes or other social insurance amounts. Further, in the event the amount so withheld is insufficient for such purpose, the Company may require that the Grantee upon its demand or otherwise make arrangements satisfactory to the Company for payment of such amount as may be requested by the Company in order to satisfy its obligation to withhold any such taxes. In any case where a tax is required to be withheld in connection with the delivery of Shares under this Agreement, the Grantee shall be permitted to satisfy the Company's tax withholding requirements by making a written election (in accordance with such rules and regulations and in such form as the Committee may determine) to have the Company withhold Shares otherwise issuable to the Grantee pursuant to the vesting of the Restricted Stock Units (the "Withholding Election") having a Fair Market Value on the date income is recognized (the "Tax Date") equal to the minimum amount required to be withheld. If the number of Shares withheld to satisfy withholding tax requirements shall include a fractional share, the number of Shares withheld shall be reduced to the next lower whole number and the Grantee shall deliver cash in lieu of such fractional share, or otherwise make arrangements satisfactory to the Company for payment of such amount. A Withholding Election must be received by the Corporate Secretary of the Company on or prior to the Tax Date.

6. Status of Grantee. The Grantee shall not be deemed for any purposes to be a shareholder of the Company with respect to any of the Restricted Stock Units unless and until they are settled in Shares and registered in the Grantee's name on the books of the Company, in accordance with section 3 above, upon vesting of the Restricted Stock Units. Neither the Plan nor this Agreement shall confer upon the Grantee any right to continue in the employ of the Company or any of its Affiliates, nor to interfere in any way with the right of the Company to terminate the employment of the Grantee at any time. In no event shall the value, at any time, of this Award, the Shares underlying this Award or any other benefit provided by this Agreement be included as compensation or earnings for purposes of any other compensation, retirement or benefit plan offered to employees of the Company or its subsidiaries unless otherwise specifically provided for in such plan.

7. Powers of the Company Not Affected. The existence of this Award shall not affect in any way the right or power of the Company or its shareholders to make or authorize any or all adjustments, recapitalizations, reorganizations or other changes in the Company's capital structure or its business, or any merger or consolidation of the Company, or any issuance of bonds, debentures, preferred or prior preference stock senior to or affecting the Shares or the rights thereof, or dissolution or liquidation of the Company, or any sale or transfer of all or any part of the Company's assets or business or any other corporate act or proceeding, whether of a similar character or otherwise.

8. Interpretation by Committee. As a condition of the granting of the Restricted Stock Units, the Grantee agrees, for himself or herself and his or her legal representatives or guardians, that this Agreement shall be interpreted by the Committee and that any interpretation by the Committee of the terms of this Agreement and any determination made by the Committee pursuant to this Agreement shall be final, binding and conclusive.

9. Nature of the Award. The Grantee acknowledges and agrees that he or she understands that the value that may be realized, if any, from this Award is contingent, and depends on the future market price of the Company's Stock, among other factors. The Grantee further confirms his or her understanding that this Award is intended to promote employee retention and stock ownership and to align employees' interests with those of shareholders, is subject to vesting conditions and will be forfeited if vesting conditions are not satisfied.

The Grantee also acknowledges and agrees that he or she understands that (a) the Plan is discretionary in nature and may be suspended or terminated by the Company at any time; (b) the grant of an Award is voluntary and occasional and does not create any contractual or other right to receive future awards, or benefits in lieu of Awards even if Awards have been granted repeatedly in the past; (c) all decisions with respect to any future award will be at the sole discretion of the Company; (d) the Grantee's participation in the Plan is voluntary; (e) the value of this Award is an extraordinary item of compensation which is outside the scope of the Grantee's employment contract with his or her actual employer, if any; (f) this Award and past or future awards are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments; and (g) no claim or entitlement to compensation or damages arises from termination of this Award or diminution in value of this Award, and the Grantee irrevocably releases the Company and its Affiliates from any such claim that may arise.

10. Administration. The Grantee acknowledges and agrees that he or she understands that the Company and its Affiliates hold certain personal information about him or her, including, but not limited to, information such as his or her name, home address, telephone number, date of birth, salary, nationality, job title, social security number, social insurance number or other such tax identity number and details of all Awards or other entitlement to shares of Stock awarded, cancelled, exercised, vested, unvested or outstanding in the Grantee's favor ("Personal Data").

The Grantee acknowledges and agrees that he or she understands that in order for the Company to process this Award and maintain a record of Shares under the Plan, the Company shall collect, use, transfer and disclose Personal Data within the Company and among its Affiliates electronically or otherwise, as necessary for the implementation and administration of the Plan including, in the case of a social insurance number, for income reporting purposes as required by law. The Grantee further understands that the Company may transfer Personal Data, electronically or otherwise, to third parties, including but not limited to such third parties as outside tax, accounting, technical and legal consultants when such third parties are assisting the Company or its Affiliates in the implementation and administration of the Plan. The Grantee understands that such recipients may be located within the jurisdiction of his or her residence, or within the United States or elsewhere and are subject to the legal requirements in those jurisdictions. The Grantee understands that the employees of the Company, its Affiliates and third parties performing work related to the implementation and administration of the Plan shall have access to the Personal Data as is necessary to fulfill their duties related to the implementation and administration of the Plan. By accepting this Award, the Grantee consents, to the fullest extent permitted by law, to the collection, use, transfer and disclosure, electronically or otherwise, of the Grantee's Personal Data by or to such entities for such purposes and accepts that this may involve the transfer of Personal Data to a country which may not have the same level of data protection law as the country in which this Agreement is executed. The Grantee confirms that if he or she has provided or, in the future, will provide Personal Data concerning third parties including beneficiaries, he or she has the consent of such third party to provide their Personal Data to the Company for the same purposes.

The Grantee understands that he or she may, at any time, request to review the Personal Data and require any necessary amendments to it by contacting the Company in writing. As well, the Grantee may always elect to for-go participation in the Plan or any other award program.

11. Miscellaneous.

(a) This Agreement and the rights of the Grantee hereunder are subject to all the terms and conditions of the Plan, as the same may be amended from time to time, as well as to such rules and regulations as the Committee may adopt for administration of the Plan. The Committee shall have the right to impose such restrictions on any Shares acquired pursuant to the Award, as it may deem advisable, including, without limitation, restrictions under applicable federal securities laws, under applicable federal and state tax law, under the requirements of any stock exchange or market upon which such Shares are then listed and/or traded, and under any blue sky or state securities laws applicable to such Shares.

(b) It is expressly understood that the Committee is authorized to administer, construe, and make all determinations necessary or appropriate to the administration of the Plan and this Agreement, all of which shall be binding upon the Grantee.

(c) The Grantee agrees to take all steps necessary to comply with all applicable provisions of federal and state securities and tax laws in exercising his or her rights under this Agreement.

(d) This Agreement shall be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.

(e) All obligations of the Company under the Plan and this Agreement shall be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase of all or substantially all of the business and/or assets of the Company, or the result of a merger, consolidation or otherwise.

(f) The award of Restricted Stock Units as provided in this Agreement and any issuance of Shares or payment pursuant to this Agreement are intended to be exempt from Section 409A of the Code under the short-term deferral exception specified in Treas. Reg. § 1.409A-1(b)(4).

(g) The Company may, in its sole discretion, decide to deliver any documents related to current or future participants in the Plan by electronic means. The Grantee hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through an on-line or electronic system established and maintained by the Company or a third party designated by the Company.

(h) To the extent not preempted by federal law, this Agreement shall be governed by, and construed in accordance with, the laws of the State of Florida.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the Grant Date.

FARO TECHNOLOGIES, INC.

By:

Name:

Title:

GRANTEE

Name:

PERFORMANCE METRICS

Performance Period: February 25, 2019 through February 25, 2022

Scheduled Vesting Date: The date, on or before March 30, 2022, on which the Committee certifies (i) the degree to which the applicable performance objectives for the Performance Period have been satisfied, and (ii) the number of Restricted Stock Units that have been earned during the Performance Period and will vest, as determined in accordance with this Exhibit A.

1. *Units Earned; Vesting.* Subject to the terms of the Restricted Stock Unit Award Agreement (“Agreement”) of which this Exhibit A is a part, the number of Restricted Stock Units that will be earned during the Performance Period and will vest as of the Scheduled Vesting Date as provided in Section 2 of the Agreement Terms and Conditions will be determined as provided below. Any capitalized term used in this Exhibit A that is not defined herein will have the meaning given to it in the Agreement or the Plan.

2. *Performance Objectives.* The Restricted Stock Units subject to this Award may be earned based on the Company’s Relative TSR Performance as described in section 3 below, subject to the limitation described in section 4 below, if applicable.

3. *Relative TSR Performance.* The number of Restricted Stock Units that will be considered earned based on the Relative TSR Performance of the Company will be determined using the following formula:

$$(\text{Target Number of Units}) \times (\text{Relative TSR Percentage})$$

For purposes of determining the Company’s Relative TSR Performance, the following terms shall have the meanings indicated:

(a) “Relative TSR” means the percentile ranking of the Company’s TSR relative to the TSR of the other companies included in the Russell 2000 Index for the entirety of the Performance Period (the “Peer Companies”). Relative TSR will be determined by ranking the Company and the Peer Companies from highest to lowest according to their respective TSRs. After this ranking, the percentile performance of the Company relative to the Peer Companies will be determined as follows:

$$P = \frac{N - R}{N - 1}$$

$$N - 1$$

where:

“P” represents the percentile performance which will be rounded, if necessary, to the nearest whole percentile by application of regular rounding.

“N” represents the remaining number of Peer Companies, plus the Company.

“R” represents the Company’s ranking among the Peer Companies.

Example: If there are 239 Peer Companies, and the Company ranked 67th, the performance would be at the 72nd percentile: $.72 = (240 - 67)/(240 - 1)$

(b) “TSR” means, with respect to any company, the percentage growth in total shareholder return, determined by dividing (A) the appreciation in price of a share of the company’s common stock from the Opening Value (as defined below) to the Closing Value (as defined below), plus any dividends paid during the Performance Period (which shall be deemed reinvested in the company’s common stock on the ex-dividend date), by (B) the Opening Value.

(c) “Opening Value” means, with respect to any company, the average of the closing prices per share of the company’s common stock for all trading days in the 30 calendar day period beginning on and including the first day of the Performance Period, assuming any dividends paid during the 30 calendar day period are reinvested in the company’s common stock on the ex-dividend date.

(d) “Closing Value” means, with respect to any company, the average of the closing prices per share of the company’s common stock for all trading days in the 30 calendar day period ending on and including the last day of the Performance Period, assuming any dividends paid during the 30 calendar day period are reinvested in the company’s common stock on the ex-dividend date.

(e) “Relative TSR Percentage” means the percentage specified in the following table that corresponds to the Relative TSR ranking achieved by the Company during the Performance Period. If the Relative TSR is between performance levels specified in the table, the corresponding Relative TSR Percentage will be determined by linear interpolation.

Payout Level	Relative TSR	Relative TSR Percentage
Max	80 th percentile or above	200%
Target	55 th percentile	100%
Threshold	25 th percentile	25%
None	Less than 25 th percentile	0%

4. *Negative TSR.* If the Company’s TSR for the Performance Period is negative, then the maximum Relative TSR Percentage that may be achieved under section 3 is 100%.

5. *Change in Control.*

(a) In the event of a Change in Control: (i) the Performance Period shall be truncated as of the date of the consummation of the Change in Control (the “CIC Date”), (ii) the TSR for the Company and each of the Peer Companies shall be calculated by using the Closing Value the closing price of each company’s common stock as of the CIC Date, (iii) the number of earned Restricted Stock Units for such truncated Performance Period shall be determined in accordance with section 3 above, and (iv) the portion of such earned Restricted Stock Units that will thereafter vest or be eligible to vest in accordance with paragraphs (b) and (c) below will be equal to the Grantee’s Pro Rata Portion (as defined in paragraph (d) below).

(b) If this Restricted Stock Unit Award is not continued or assumed by the Surviving Entity or otherwise equitably converted or substituted for in connection with a Change in Control, the Grantee’s Pro Rata Portion shall vest immediately upon the CIC Date and settle in accordance with section 3 of the Agreement (unless a later date is required by Section 17.3 of the Plan).

(c) If this Restricted Stock Unit Award is continued or assumed by the Surviving Entity or otherwise equitably converted or substituted for in connection with a Change in Control, the Grantee’s Pro Rata Portion shall convert immediately upon the CIC Date into a time-based vesting award for the remaining duration of the Performance Period and, assuming the Grantee’s continued employment, shall vest on the last day of the Performance Period; provided, however, if within one year after the CIC Date, the Grantee’s employment is terminated without Cause or the Grantee resigns for Good Reason, then the Grantee’s Pro Rata Portion shall vest immediately as of the date of his or her termination of Continuous Service and settle in accordance with section 3 of the Agreement (unless a later date is required by Section 17.3 of the Plan).

(d) The “Pro Rata Portion” means that number of Restricted Stock Units equal to the product obtained by multiplying (x) the total number of earned Restricted Stock Units (as determined in accordance with section 5(a) of this Exhibit) by (y) a fraction, the numerator of which is the number of days elapsed from the first day of the Performance Period through the CIC Date and the denominator of which is the number of days in the Performance Period.

FARO Technologies, Inc.
Certification Pursuant to Rule 13a-14(a)/15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Simon Raab, certify that:

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

Date: May 1, 2019

/s/ Simon Raab

Name: Simon Raab
Title: President and Chief Executive Officer
(Principal Executive Officer)

FARO Technologies, Inc.**Certification Pursuant to Rule 13a-14(a)/15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002**

I, Robert Seidel, certify that:

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

Date: May 1, 2019

/s/ Robert Seidel

Name: Robert Seidel
Title: Chief Financial Officer
(Principal Financial Officer)

FARO Technologies, Inc.

Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Solely for the purposes of complying with 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, I, the undersigned President and Chief Executive Officer of FARO Technologies, Inc. (the Company), hereby certify that the Quarterly Report on Form 10-Q for the quarter ended March 31, 2019 (the Report) fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 1, 2019

/s/ Simon Raab

Name: Simon Raab
Title: President and Chief Executive Officer
(Principal Executive Officer)

FARO Technologies, Inc.

Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Solely for the purposes of complying with 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, I, the undersigned Chief Financial Officer of FARO Technologies, Inc. (the Company), hereby certify that the Quarterly Report on Form 10-Q for the quarter ended March 31, 2019 (the Report) fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 1, 2019

/s/ Robert Seidel

Name: Robert Seidel
Title: Chief Financial Officer
(Principal Financial Officer)