

ALPHA PRO TECH LTD
Form 10-Q
May 09, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

Quarterly Report pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934

For the Quarterly Period Ended March 31, 2018

Commission File No. 01-15725

Alpha Pro Tech, Ltd.

(exact name of registrant as specified in its charter)

Delaware, U.S.A.

63-1009183

(State or other jurisdiction of incorporation) (I.R.S. Employer Identification No.)

60 Centurian Drive, Suite 112

Markham, Ontario, Canada

L3R 9R2

(Address of principal executive offices) (Zip Code)

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Registrant's telephone number, including area code: (905) 479-0654

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

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

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

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

Emerging growth company

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

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

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

Class	Outstanding May 3, 2018
Common Stock, \$0.01 par value	14,187,747 shares

Alpha Pro Tech, Ltd.

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Alpha Pro Tech, Ltd.**PART I. FINANCIAL INFORMATION****ITEM 1. FINANCIAL STATEMENTS****Condensed Consolidated Balance Sheets (Unaudited)**

	March 31, 2018	December 31, 2017 (1)
Assets		
Current assets:		
Cash	\$5,666,000	\$8,763,000
Investments	375,000	343,000
Accounts receivable, net of allowance for doubtful accounts of \$83,000 as of March 31, 2018 and December 31, 2017	6,463,000	4,597,000
Accounts receivable, related party	381,000	361,000
Inventories	10,635,000	10,249,000
Prepaid expenses	3,455,000	2,665,000
Total current assets	26,975,000	26,978,000
Property and equipment, net	3,115,000	3,158,000
Goodwill	55,000	55,000
Definite-lived intangible assets, net	20,000	21,000
Deferred income tax assets	19,000	19,000
Equity investments in unconsolidated affiliate	4,032,000	3,893,000
Total assets	\$34,216,000	\$34,124,000
Liabilities and Shareholders' Equity		
Current liabilities:		
Accounts payable	\$1,042,000	\$1,236,000
Accrued liabilities	1,764,000	1,565,000
Total current liabilities	2,806,000	2,801,000
Commitments		
Shareholders' equity:		

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Common stock, \$.01 par value: 50,000,000 shares authorized; 14,187,749 and 14,290,749 shares outstanding as of March 31, 2018 and December 31, 2017, respectively	142,000	143,000
Additional paid-in capital	4,995,000	5,415,000
Accumulated other comprehensive loss	-	(458,000)
Retained earnings	26,273,000	26,223,000
Total shareholders' equity	31,410,000	31,323,000
Total liabilities and shareholders' equity	\$34,216,000	\$34,124,000

(1) The condensed consolidated balance sheet as of December 31, 2017 has been prepared using information from the audited consolidated balance sheet as of that date.

See accompanying Notes to Condensed Consolidated Financial Statements (Unaudited).

Alpha Pro Tech, Ltd.**Condensed Consolidated Statements of Income (Unaudited)**

	For the Three Months Ended March 31,	
	2018	2017
Net sales	<i>\$ 11,442,000</i>	<i>\$ 10,751,000</i>
Cost of goods sold, excluding depreciation and amortization	<i>6,987,000</i>	<i>6,457,000</i>
Gross profit	<i>4,455,000</i>	<i>4,294,000</i>
Operating expenses:		
Selling, general and administrative	<i>3,881,000</i>	<i>3,474,000</i>
Depreciation and amortization	<i>146,000</i>	<i>154,000</i>
Total operating expenses	<i>4,027,000</i>	<i>3,628,000</i>
Income from operations	<i>428,000</i>	<i>666,000</i>
Other income:		
Equity in income of unconsolidated affiliate	<i>139,000</i>	<i>105,000</i>
Unrealized gain on marketable securities	<i>32,000</i>	<i>-</i>
Interest income, net	<i>1,000</i>	<i>1,000</i>
Total other income	<i>172,000</i>	<i>106,000</i>
Income before provision for income taxes	<i>600,000</i>	<i>772,000</i>
Provision for income taxes	<i>92,000</i>	<i>222,000</i>
Net income	<i>\$ 508,000</i>	<i>\$ 550,000</i>
Basic earnings per common share	<i>\$ 0.04</i>	<i>\$ 0.04</i>
Diluted earnings per common share	<i>\$ 0.04</i>	<i>\$ 0.04</i>
Basic weighted average common shares outstanding	<i>14,217,919</i>	<i>15,207,659</i>

Diluted weighted average common shares outstanding *14,383,005* *15,301,801*

See accompanying Notes to Condensed Consolidated Financial Statements (Unaudited).

Alpha Pro Tech, Ltd.

Condensed Consolidated Statements of Comprehensive Income (Unaudited)

	For the Three Months Ended March 31, 2018 2017	
Net income	\$508,000	\$550,000
Other comprehensive income (loss):		
Change in unrealized gain (loss) on marketable securities, net of tax	-	(77,000)
Comprehensive income	\$508,000	\$473,000

See accompanying Notes to Condensed Consolidated Financial Statements (Unaudited).

Alpha Pro Tech, Ltd.**Condensed Consolidated Statement of Shareholders' Equity (Unaudited)****For the Three Months Ended March 31, 2018**

	Common Stock		Additional	Accumulated	Retained	Total
	Shares	Amount	Paid-in	Other	Earnings	
			Capital	Comprehensive		
				Loss		
Balance as of December 31, 2017	14,290,749	\$143,000	\$5,415,000	\$ (458,000)	\$26,223,000	\$31,323,000
Common stock repurchased and retired	(153,000)	(1,000)	(575,000)	-	-	(576,000)
Stock-based compensation expense		-	78,000	-	-	78,000
Options exercised	50,000	-	77,000	-	-	77,000
Net income				-	508,000	508,000
Cumulative-effect adjustment of change in accounting for unrealized loss on marketable securities	-	-	-	458,000	(458,000)	-
Balance as of March 31, 2018	14,187,749	\$142,000	\$4,995,000	\$ -	\$26,273,000	\$31,410,000

See accompanying Notes to Condensed Consolidated Financial Statements (Unaudited).

Alpha Pro Tech, Ltd.**Condensed Consolidated Statements of Cash Flows (Unaudited)**

	For the Three Months Ended	
	March 31, 2018	2017
Cash Flows From Operating Activities:		
Net income	\$508,000	\$550,000
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Share-based compensation	78,000	81,000
Depreciation and amortization	146,000	154,000
Unrealized gain on marketable securities	(32,000)	-
Equity in income of unconsolidated affiliate	(139,000)	(105,000)
Changes in assets and liabilities:		
Accounts receivable, net	(1,866,000)	(866,000)
Accounts receivable, related party	(20,000)	65,000
Inventories	(386,000)	315,000
Prepaid expenses	(790,000)	391,000
Accounts payable and accrued liabilities	5,000	(423,000)
Net cash provided by (used in) operating activities	(2,496,000)	162,000
Cash Flows From Investing Activities:		
Purchase of property and equipment	(102,000)	(584,000)
Net cash used in investing activities	(102,000)	(584,000)
Cash Flows From Financing Activities:		
Proceeds from exercise of stock options	77,000	-
Repurchase of common stock	(576,000)	(1,150,000)
Net cash used in financing activities	(499,000)	(1,150,000)
Decrease in cash	(3,097,000)	(1,572,000)
Cash, beginning of the period	8,763,000	9,456,000

Cash, end of the period	\$5,666,000	\$7,884,000
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See accompanying Notes to Condensed Consolidated Financial Statements (Unaudited).

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Alpha Pro Tech, Ltd.

Notes to Condensed Consolidated Financial Statements (Unaudited)

1. The Company

Alpha Pro Tech, Ltd. (“Alpha Pro Tech” or the “Company”) is in the business of protecting people, products and environments. The Company accomplishes this by developing, manufacturing and marketing a line of building supply products for the new home and re-roofing markets; a line of disposable protective apparel for the cleanroom, industrial and pharmaceutical markets; and a line of infection control products for the medical and dental markets.

The Building Supply segment consists of construction weatherization products, such as housewrap and synthetic roof underlayment, as well as other woven material.

The Disposable Protective Apparel segment consists of a complete line of shoecovers, bouffant caps, coveralls, gowns, frocks and lab coats.

The Infection Control segment consists of a line of face masks and eye shields.

The Company’s products are sold under the "Alpha Pro Tech" brand name and under private label, and are predominantly sold in the United States of America (“US”).

2. Basis of Presentation and Revenue Recognition Policy

The interim financial information included herein is unaudited; however, the information reflects all adjustments (consisting of normal recurring adjustments) that are, in the opinion of management, necessary for the fair presentation of the consolidated financial position, results of operations and cash flows for the interim periods. These interim condensed consolidated financial statements have been prepared in accordance with the rules and regulations of the Securities and Exchange Commission (“SEC”) and, therefore, omit certain information and note disclosures necessary to present the statements in accordance with US generally accepted accounting principles (“US GAAP”). The interim condensed consolidated financial statements should be read in conjunction with the Company’s current year SEC filings on Form 8-K, as well as the consolidated financial statements for the year ended *December 31, 2017*, which are included in the Company’s Annual Report on Form 10-K (the “2017 Form 10-K”), which was filed on *March 12, 2018*. The results of operations for the *three* months ended *March 31, 2018* reported in this Form 10-Q are *not* necessarily indicative of the results to be expected for the full year. The condensed consolidated balance sheet as of *December 31, 2017* was prepared using information from the audited consolidated balance sheet contained in the 2017 Form 10-K and does *not* include all disclosures required by US GAAP for annual consolidated financial statements.

The Company adopted Accounting Standards Update 2014-09, *Revenue from Contracts with Customers* (Topic 606) effective *January 1, 2018* on a full retrospective basis. Adoption of this standard did *not* result in significant changes to our accounting policies, business processes, systems or controls, or have a material impact on our financial position, results of operations and cash flows or related disclosures. As such, prior period financial statements were *not* recast. The Company recognizes revenue for the transfer of promised goods to customers in an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods. The Company typically satisfies its performance obligations in contracts with customers upon shipment of the goods. Generally, payment is due from customers within a fixed number of days of the invoice date and the contracts do *not* have significant financing components.

The Company has determined that control does *not* pass at the time of manufacture for private label goods, based on the nature of the private labeling.

See Notes 10 and 11 for revenue disaggregated by type and by geographic region.

3. Stock-Based Compensation

The Company maintains a stock option plan under which the Company *may* grant incentive stock options and non-qualified stock options to employees and non-employee directors. Stock options have been granted with exercise prices at or above the fair market value of the underlying shares of common stock on the date of grant. Options vest and expire according to terms established at the grant date.

The Company records compensation expense for the fair value of stock-based awards determined as of the grant date, including employee stock options, over the determined requisite service period, which is generally ratably over the vesting term.

For the *three* months ended *March 31, 2018* and *2017*, *289,750*, and *0*, respectively, of stock options were granted under the Company's option plan. The Company recognized *\$78,000* and *\$81,000* in stock-based compensation expense for the *three* months ended *March 31, 2018* and *2017*, respectively.

The Company uses the Black-Scholes option-pricing model to value the options. The Company uses historical data to estimate the life of the options. The risk-free interest rate for periods within the contractual life of the award is based on the US Treasury yield curve in effect at the time of grant. The estimated volatility is based on historical volatility and management's expectations of future volatility. The Company uses an estimated dividend payout of zero, as the Company has *not* paid dividends in the past and, at this time, does *not* expect to do so in the future.

Alpha Pro Tech, Ltd.**Notes to Condensed Consolidated Financial Statements (Unaudited)**

The following table summarizes stock option activity for the *three* months ended *March 31, 2018*:

	Options	Weighted Average Exercise Price Per Option
Options outstanding, December 31, 2017	884,998	\$ 2.26
Granted to employees and non-employee directors	289,750	3.20
Exercised	(50,000)	1.53
Canceled/expired/forfeited	-	0.00
Options outstanding, March 31, 2018	1,124,748	2.53
Options exercisable, March 31, 2018	313,334	2.02

As of *March 31, 2018*, \$560,000 of total unrecognized compensation cost related to stock options was expected to be recognized over a weighted average period of 2.55 years.

4. Investments

As of *March 31, 2018* and *December 31, 2017*, investments totaled \$375,000 and \$343,000 respectively, which consisted of equity securities.

The following provides information regarding the Company's marketable securities as of *March 31, 2018* and *December 31, 2017*:

	March 31, 2018	December 31, 2017
Cost basis	\$543,000	\$543,000
Gains previously recognized on warrants	380,000	380,000
Loss included in accumulated other comprehensive loss or reclassified to retained earnings on January 1, 2018	(580,000)	(580,000)
Unrealized gain recognized in earnings since January 1, 2018	32,000	-
Fair value	\$375,000	\$343,000

No marketable securities were sold during the *three* months ended *March 31, 2018* and the year ended *December 31, 2017*. The unrealized gain of \$32,000 since *January 1, 2018* is recognized in the statement of income for the *three* months ended *March 31, 2018*. The unrealized loss of \$77,000 in the statement of comprehensive income is presented net of tax for the *three* months ended *March 31, 2018*. The tax benefit on the unrealized loss was \$30,000 for the *three* months ended *March 31, 2017*.

Alpha Pro Tech, Ltd.

Notes to Condensed Consolidated Financial Statements (Unaudited)

5. Recent Accounting Pronouncements

Accounting Standards Update (“ASU”) 2014-09, *Revenue from Contracts with Customers* (Topic 606) (“ASU 2014-09”) is a comprehensive new revenue recognition model requiring a company to recognize revenue to depict the transfer of goods or services to a customer at an amount reflecting the consideration that it expects to receive in exchange for those goods or services. In adopting ASU 2014-09, companies *may* use either a full retrospective or a modified retrospective approach. ASU 2014-09 is effective for the *first* interim period within an annual reporting period beginning after *December 15, 2017*, and early adoption is *not* permitted. The Company adopted ASU 2014-09 during the *first* quarter of 2018. Management evaluated the provisions of this update and has determined that its adoption did *not* have a significant impact on the Company’s financial position or results of operations.

In *January 2016*, the FASB issued ASU 2016-01, *Financial Instruments - Overall* (Subtopic 825-10): *Recognition and Measurement of Financial Assets and Financial Liabilities*, which provides guidance for the recognition, measurement, presentation and disclosure of financial instruments. The new guidance revises the accounting requirements related to the classification and measurement of investments in equity securities and the presentation of certain fair value changes for financial liabilities measured at fair value. The guidance also changes certain disclosure requirements associated with the fair value of financial instruments. These changes will require an entity to measure, at fair value, investments in equity securities and other ownership interests in an entity and recognize the changes in fair value within net income. The guidance is effective for fiscal years and interim periods within those years beginning after *December 15, 2017*. As a result of adopting this guidance effective *January 1, 2018*, the Company recorded a cumulative-effect adjustment to reclassify the \$458,000 accumulated other comprehensive loss balance to retained earnings, which balance was the result of unrealized losses on marketable securities. Effective, *January 1, 2018* unrealized gains and losses on marketable securities are recorded on the statement of income.

In *February 2016*, the FASB issued ASU 2016-02, *Leases* (Topic 842), which requires lessees to recognize most leases on the balance sheet. The provisions of this guidance are effective for annual periods beginning after *December 15, 2018* and interim periods within those years, with early adoption permitted. Management is evaluating the requirements of this guidance and has *not* yet determined the impact of the adoption on the Company’s financial position or results of operations.

In *March 2016*, the FASB issued ASU 2016-09, *Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*, which simplifies several aspects of accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, an option to recognize gross stock compensation expense with actual forfeitures recognized as they occur, as well as certain classifications on the statement of cash flows. The provisions of this guidance were effective for annual reporting periods beginning after *December 15, 2016* and interim periods within those annual periods, with early adoption permitted. The Company adopted this guidance during the quarter ended *March 31, 2017*, and the Company recorded a *one-time \$866,000* cumulative-effect adjustment to reduce additional paid-in capital and increase retained earnings for excess tax benefits from stock option exercises that had previously been recorded to additional paid-in capital. The adoption of this guidance also increased the number of dilutive shares because excess tax benefits are *no* longer included in the assumed proceeds when calculating the number of dilutive shares. In addition, the effective tax rate will be reduced in future periods when there are excess tax benefits from stock options exercised.

Management periodically reviews new accounting standards that are issued. Management has *not* identified any other new standards that it believes merit further discussion at this time.

Alpha Pro Tech, Ltd.**Notes to Condensed Consolidated Financial Statements (Unaudited)****6. Inventories**

As of *March 31, 2018* and *December 31, 2017*, inventories consisted of the following:

	March 31, 2018	December 31, 2017
Raw materials	\$4,620,000	\$4,567,000
Work in process	1,239,000	1,058,000
Finished goods	4,776,000	4,624,000
	\$10,635,000	\$10,249,000

7. Equity Investment in Unconsolidated Affiliate

In 2005, Alpha ProTech Engineered Products, Inc. (a subsidiary of Alpha Pro Tech, Ltd.) entered into a joint venture with a manufacturer in India for the production of building products. Under the terms of the joint venture agreement, a private company, Harmony Plastics Private Limited (“Harmony”), was created with ownership interests of 41.66% by Alpha ProTech Engineered Products, Inc. and 58.34% by Maple Industries and Associates.

This joint venture positions Alpha ProTech Engineered Products, Inc. to respond to current and expected increased product demand for housewrap and synthetic roof underlayment and provides future capacity for sales of specialty roofing component products and custom products for industrial applications requiring high quality extrusion coated fabrics. In addition, the joint venture now supplies products for the Disposable Protective Apparel segment.

The capital from the initial funding and a bank loan, which loan is guaranteed exclusively by the individual shareholders of Maple Industries and associates and collateralized by the assets of Harmony, were utilized to purchase the original manufacturing facility in India. Harmony currently has *four* facilities in India (*three* owned and *one* rented), consisting of: (1) a *113,000* square foot building for manufacturing building products; (2) a *73,000* square foot building for manufacturing coated material and sewing proprietary disposable protective apparel; (3) a *16,000* square foot facility for sewing proprietary disposable protective apparel; (4) a *93,000* square foot rental for manufacturing of Building Supply segment products. All additions have been financed by Harmony with *no* guarantees from the Company.

In accordance with Accounting Standards Codification (“ASC”) *810, Consolidation*, the Company assesses whether or *not* related entities are variable interest entities (“VIEs”). For those related entities that qualify as VIEs, ASC *810* requires the Company to determine whether or *not* the Company is the primary beneficiary of the VIE, and, if so, to consolidate the VIE. The Company has determined that Harmony is *not* a VIE and is, therefore, considered to be an unconsolidated affiliate.

The Company records its investment in Harmony as “equity investment in unconsolidated affiliate” in the accompanying condensed consolidated balance sheets. The Company records its equity interest in Harmony’s results of operations as “equity in income of unconsolidated affiliate” in the accompanying condensed consolidated statements of income. The Company periodically reviews its investment in Harmony for impairment. Management has determined that *no* impairment was required as of *March 31, 2018* and *December 31, 2017*.

For the *three* months ended *March 31, 2018* and *2017*, Alpha Pro Tech purchased *\$3,974,000* and *\$3,627,000* of inventories, respectively, from Harmony.

Alpha Pro Tech, Ltd.**Notes to Condensed Consolidated Financial Statements (Unaudited)**

For the *three* months ended *March 31, 2018* and *2017*, the Company recorded equity in income of unconsolidated affiliate of *\$139,000* and *\$105,000*, respectively, related to Harmony.

As of *March 31, 2018*, the Company's investment in Harmony was *\$4,032,000*, which consisted of its original *\$1,450,000* investment and cumulative equity in income of unconsolidated affiliate of *\$3,601,000*, less *\$942,000* in repayments of the advance and *\$77,000* in dividends.

8. Accrued Liabilities

As of *March 31, 2018* and *December 31, 2017*, accrued liabilities consisted of the following:

	March 31, 2018	December 31, 2017
Payroll expenses and tax payable	<i>\$120,000</i>	<i>\$232,000</i>
Commission and bonuses payable and general accrued liabilities	<i>1,644,000</i>	<i>1,333,000</i>
	<i>\$1,764,000</i>	<i>\$1,565,000</i>

9. Basic and Diluted Earnings Per Common Share

The following table provides a reconciliation of both net income and the number of shares used in the computation of “basic” earnings per common share (“EPS”), which utilizes the weighted average number of common shares outstanding without regard to dilutive shares, and “diluted” EPS, which includes all such dilutive shares, for the *three* months ended *March 31, 2018* and *2017*.

	For the Three Months Ended March 31, 2018		2017
Net income (numerator)	\$508,000	\$550,000	
Shares (denominator):			
Basic weighted average common shares outstanding	14,217,919	15,207,659	
Add: dilutive effect of common stock options	165,086	94,142	
Diluted weighted average common shares outstanding	14,383,005	15,301,801	
Earnings per common share:			
Basic	\$0.04	\$0.04	
Diluted	\$0.04	\$0.04	

10. Activity of Business Segments

The Company operates through *three* business segments:

Building Supply: consisting of a line of construction supply weatherization products. The construction supply weatherization products consist of housewrap and synthetic roof underlayment, as well as other woven material. The majority of the Company’s equity in income of unconsolidated affiliate (Harmony) is included in the total segment income for the Building Supply segment.

Alpha Pro Tech, Ltd.**Notes to Condensed Consolidated Financial Statements (Unaudited)**

Disposable Protective Apparel: consisting of a complete line of disposable protective clothing, such as shoecovers (including the Aqua Trak® and spunbond shoecovers), bouffant caps, coveralls, frocks, lab coats, gowns and hoods for the pharmaceutical, cleanroom, industrial and medical markets. A portion of the Company's equity in income of unconsolidated affiliate (Harmony) is included in the total segment income for the Disposable Protective Apparel segment.

Infection Control: consisting of a line of face masks and eye shields.

Segment data excludes charges allocated to the principal executive office and other unallocated expenses and income tax. The Company evaluates the performance of its segments and allocates resources to them based primarily on net sales.

The following table presents consolidated net sales for each segment for the *three* months ended *March 31, 2018* and *2017*:

	For the Three Months Ended March 31,	
	2018	2017
Building Supply	\$6,669,000	\$5,939,000
Disposable Protective Apparel	3,232,000	3,295,000
Infection Control	1,541,000	1,517,000
Consolidated net sales	\$11,442,000	\$10,751,000

The following table presents the reconciliation of consolidated segment income to consolidated net income for the *three* months ended *March 31, 2018* and *2017*:

	For the Three Months Ended March 31,	
	2018	2017
Building Supply	\$994,000	\$962,000
Disposable Protective Apparel	290,000	458,000
Infection Control	733,000	596,000
Total segment income	2,017,000	2,016,000
Unallocated corporate overhead expenses	1,417,000	1,244,000
Provision for income taxes	92,000	222,000
Consolidated net income	\$508,000	\$550,000

Alpha Pro Tech, Ltd.**Notes to Condensed Consolidated Financial Statements (Unaudited)**

The following table presents the consolidated net property and equipment, goodwill and definite-lived intangible assets (“consolidated assets”) by segment as of *March 31, 2018* and *December 31, 2017*:

	March 31, 2018	December 31, 2017
Building Supply	\$2,050,000	\$2,098,000
Disposable Protective Apparel	325,000	336,000
Infection Control	12,000	13,000
Total segment assets	2,387,000	2,447,000
Unallocated corporate assets	803,000	787,000
Total consolidated assets	\$3,190,000	\$3,234,000

11. Financial Information about Geographic Areas

The following table summarizes the Company’s net sales by geographic region for the Company’s the *three* months ended *March 31, 2018* and *2017*. All amounts have been rounded to the nearest thousand.

**For the Three Months
Ended
March 31,
2018 2017**

Net sales by geographic region		
United States	\$11,198,000	\$10,599,000
International	244,000	152,000
Consolidated net sales	\$11,442,000	\$10,751,000

Net sales by geographic region are based on the countries in which our customers are located. For the *three* months ended *March 31, 2018* and the year ended *December 31, 2017*, the Company did *not* generate sales from any single country, other than the United States, that were significant to the Company's consolidated net sales.

The following table summarizes the locations of the Company's long-lived assets by geographic region as of *March 31, 2018* and *December 31, 2017*.

	March 31, 2018	December 31, 2017
Long-lived assets by geographic region		
United States	\$2,644,000	\$2,593,000
International	471,000	565,000
Consolidated total long-lived assets	\$3,115,000	\$3,158,000

Alpha Pro Tech, Ltd.

Notes to Condensed Consolidated Financial Statements (Unaudited)

12. Related Party Transactions

The Company previously used a law firm for certain legal matters whose majority member was a member of the Company's Board of Directors until his resignation on *March 31, 2017*. For the *three* months ended *March 31, 2018* and *2017*, the Company expensed *\$0* and *\$40,000*, respectively, for legal services from this related party. As of *March 31, 2018* and *2017*, the Company's outstanding balance to this related party was *\$0* and *\$203,000*, respectively.

13. Commitments and Contingencies

The Company has been involved in protracted litigation against a competitor in an action styled *Alpha Pro Tech, Inc. v. VWR International, LLC*, pending in the U.S. District Court for the Eastern District of Pennsylvania, CV *12-1615*, wherein the Company originally sought damages for unfair trade practices and false advertising against the competitor, and the competitor counterclaimed asserting similar claims against the Company. In *August* of *2017*, the court ruled against the Company on its claims against the competitor. The competitor, as the prevailing party with respect to those claims, subsequently filed a motion seeking to recover from the Company an amount in excess of *\$2* million in attorneys' fees and costs, which motion was granted by the court. In *November* of *2017*, the Company, in consultation with new litigation counsel, filed a motion to reconsider the attorneys' fee award. The court heard arguments on the motion to reconsider at a hearing in *February* of *2018*. At the hearing, the court encouraged the parties to attempt to settle the matter in advance of a ruling on the motion to reconsider (which motion was ultimately denied), and the parties subsequently mediated the matter in *April* of *2018*. As a result of the mediation and the parties' further discussions, the parties have reached an agreement in principle for the terms of a settlement of the attorneys' fee claim and are currently working together to document the settlement terms. The Company has accrued in its financial statements the amount agreed upon for the settlement. The Company is in the process of evaluating avenues for recovery of the settlement amount from former litigation counsel; however, there can be *no* assurance as to the ultimate amount of any such recovery.

14. Subsequent Events

The Company has reviewed and evaluated whether subsequent events have occurred from the condensed consolidated balance sheet date of *March 31, 2018* through the filing date of this Quarterly Report on Form *10-Q* that would require accounting or disclosure and has concluded that there was a subsequent event.

Effective *April 22, 2018*, the Generalized System of Preferences (GSP) has renewed duty free treatment to goods of beneficiary countries, and is retroactive to *January 1, 2018*, which means to us that certain goods that were duty free in *2017* are now duty free in *2018* through *December 31, 2020*.

Alpha Pro Tech, Ltd.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis together with our unaudited condensed consolidated financial statements and the notes to our unaudited condensed consolidated financial statements, which appear elsewhere in this report.

Special Note Regarding Forward-Looking Statements

Certain information set forth in this Quarterly Report on Form 10-Q contains “forward-looking statements” within the meaning of federal securities laws. Forward-looking statements include statements concerning our plans, objectives, goals, strategies, future events, future revenues or performance, capital expenditures, financing needs, plans or intentions relating to potential acquisitions and other information that is not historical information. When used in this report, the words “estimates,” “expects,” “anticipates,” “forecasts,” “plans,” “intends,” “believes” and variations of such words similar expressions are intended to identify forward-looking statements. We may make additional forward-looking statements from time to time. All forward-looking statements, whether written or oral and whether made by us or on our behalf, are expressly qualified by this special note.

Any expectations based on these forward-looking statements are subject to risks and uncertainties. These and many other factors could affect the Company’s future operating results and financial condition and could cause actual results to differ materially from expectations based on forward-looking statements made in this document or elsewhere by the Company or on its behalf.

Special Note Regarding Smaller Reporting Company Status

We are filing this report as a “smaller reporting company” (as defined in Rule 12b-2 of the Securities Exchange Act of 1934, as amended). As a result of being a smaller reporting company, we are allowed and have elected to omit certain

information from this Management's Discussion and Analysis of Financial Condition and Results of Operations; however, we have provided all information for the periods presented that we believe to be appropriate.

Where to find more information about us. We make available, free of charge, on our website (<http://www.alphaprotech.com>) our most recent Annual Report on Form 10-K, our most recent Quarterly Report on Form 10-Q, any current reports on Form 8-K furnished or filed since our most recent Annual Report on Form 10-K, and any amendments to such reports, as soon as reasonably practicable following the electronic filing of such reports with the Securities and Exchange Commission ("SEC"). In addition, in accordance with SEC rules, we provide electronic or paper copies of our filings free of charge upon request.

Critical Accounting Policies

The preparation of our financial statements in conformity with US generally accepted accounting principles ("US GAAP") requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the dates of the financial statements and the reported amounts of net sales and expenses during the reported periods. We base estimates on past experience and on various other assumptions that are believed to be reasonable under the circumstances. The application of these accounting policies on a consistent basis enables us to provide timely and reliable financial information. Our critical accounting policies include the following:

Marketable Securities: The Company periodically invests a portion of its cash in excess of short-term operating needs in marketable equity securities. These investments are classified as available-for-sale in accordance with US GAAP. The Company does not have any investments classified as held-to-maturity or trading securities. Available-for-sale investments are carried at their fair value using quoted prices in active markets for identical securities, and effective January 1, 2018 unrealized gains and losses are reported as a component of net income in the statements of income. Prior to January 1, 2018, unrealized gains and losses were reported as other comprehensive income as a component of equity. The cost of securities sold is based on the specific identification method. Investments that the Company intends to hold for more than one year are classified as long-term investments in the accompanying condensed consolidated balance sheets.

Alpha Pro Tech, Ltd.

Inventories: Inventories include freight-in, materials, labor and overhead costs and are stated at the lower of cost or net realizable value. Allowances are recorded for slow-moving, obsolete or unusable inventory. We assess our inventory for estimated obsolescence or unmarketable inventory and write down the difference between the cost of inventory and the estimated net realizable value based upon assumptions about future sales and quantities on hand, if necessary. If actual market conditions are less favorable than those projected by management, additional inventory write-downs may be required.

Accounts Receivable: Accounts receivable are recorded at the invoice amount and do not bear interest. The allowance for doubtful accounts is the Company's best estimate of the amount of probable credit losses in the Company's existing accounts receivable; however, changes in circumstances relating to accounts receivable may result in a requirement for additional allowances in the future. The Company determines the allowance based upon historical write-off experience and known conditions about customers' current ability to pay. Account balances are charged against the allowance when management determines that the potential for recovery is remote.

Revenue Recognition: The Company recognizes revenue for the transfer of promised goods to customers in an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods. The Company typically satisfies its performance obligations in contracts with customers upon shipment of the goods. Generally, payment is due from customers within a fixed number of days of the invoice date and the contracts do not have significant financing components.

The Company has determined that control does not pass at the time of manufacture for private label goods, based on the nature of the private labeling.

See Notes 10 and 11 for revenue disaggregated by type and by geographic region.

Sales Returns, Rebates and Allowances: Sales are reduced for any anticipated sales returns, rebates and allowances based on historical experience. Since our return policy is only 90 days and our products are not generally susceptible to external factors such as technological obsolescence or significant changes in demand, we are able to make a reasonable estimate for returns. We offer end-user, product-specific and sales volume rebates to select distributors. Our rebates are based on actual sales and are accrued monthly.

Stock-Based Compensation: We record compensation expense for the fair value of stock-based awards determined on the date of grant, including employee stock options, over the determined requisite service period, which is generally ratably over the vesting term.

The fair values of stock option grants are determined using the Black-Scholes option-pricing model and are based on the following assumptions: expected stock price volatility based on historical data and management's expectations of future volatility, risk-free interest rates from published sources, expected life based on historical data and no dividend yield, as the Board of Directors has no current plans to pay dividends in the near future. The Black-Scholes option-pricing model was developed for use in estimating the fair value of traded options that have no vesting restrictions and that are fully transferable. The option-pricing model requires the input of highly subjective assumptions, including expected stock price volatility. Our stock options have characteristics significantly different from those of traded options, and changes in the subjective input assumptions can materially affect the fair value of such options.

OVERVIEW

Alpha Pro Tech is in the business of protecting people, products and environments. We accomplish this by developing, manufacturing and marketing a line of high-value, disposable protective apparel and infection control products for the cleanroom, industrial, pharmaceutical, medical and dental markets. We also manufacture a line of building supply construction weatherization products. Our products are sold under the "Alpha Pro Tech" brand name, as well as under private label.

Our products are grouped into three business segments: the Building Supply segment, consisting of construction weatherization products such as housewrap and synthetic roof underlayment as well as other woven material; the Disposable Protective Apparel segment, consisting of disposable protective apparel such as shoecovers, bouffant caps, gowns, coveralls, lab coats, frocks and other miscellaneous products; and the Infection Control segment, consisting of face masks and eye shields. All financial information presented herein reflects the current segmentation.

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Our target markets include pharmaceutical manufacturing, bio-pharmaceutical manufacturing, medical device manufacturing, lab animal research, high technology electronics manufacturing (which includes the semi-conductor market), medical and dental distributors, and construction, building supply and roofing distributors.

Our products are used primarily in cleanrooms, industrial safety manufacturing environments, health care facilities, such as hospitals, laboratories and dental offices, and building and re-roofing sites. Our products are distributed principally in the United States through a network consisting of purchasing groups, national distributors, local distributors, independent sales representatives and our own sales and marketing force.

RESULTS OF OPERATIONS

The following table sets forth certain operational data as a percentage of net sales for the periods indicated:

	For the Three Months	
	Ended March 31,	
	2018	2017
Net sales	100.0%	100.0%
Gross profit	38.9 %	39.9 %
Selling, general and administrative expenses	33.9 %	32.3 %
Income from operations	3.7 %	6.2 %
Income before provision for income taxes	5.2 %	7.2 %
Net income	4.4 %	5.1 %

Three months ended March 31, 2018 compared to three months ended March 31, 2017

Sales. Consolidated sales for the three months ended March 31, 2018 increased to \$11,442,000, from \$10,751,000 for the three months ended March 31, 2017, representing an increase of \$691,000, or 6.4%. This increase consisted of increased sales in the Building Supply segment of \$730,000 and increased sales in the Infection Control segment of \$24,000, partially offset by decreased sales in the Disposable Protective Apparel segment of \$63,000.

Building Supply segment sales for the three months ended March 31, 2018 increased by \$730,000, or 12.3%, to \$6,669,000, compared to \$5,939,000 for the same period of 2017. This segment increase was primarily due to a 19.0% increase in sales of housewrap and a 114% increase in sales of other woven material, partially offset by a 1.4% decrease in sales of synthetic roof underlayment (including REX™, TECHNOply™ and our new TECHNO SB®). The sales mix of the Building Supply segment for the three months ended March 31, 2018 was 47% for synthetic roof underlayment, 44% for housewrap and 9% for other woven material. This compared to 54% for synthetic roof underlayment, 41% for housewrap and 5% for other woven material for the three months ended March 31, 2017.

Our housewrap sales continue to show growth, with increased revenue in the first quarter of 2018 compared to the same period of 2017. Sales of the REX™ family of housewrap grew by 19% as compared to the first quarter of 2017. Management is encouraged by housewrap sales, as we have achieved sales growth in each of the last nine quarters on a comparative basis. Although our synthetic roof underlayment sales decreased for the quarter, the number of rolls sold increased, as sales were affected by a change in the product mix from the premium REX™ synthetic underlayment to the lower priced TECHNO family (TECHNOply™ and TECHNO SB) of products. The number of TECHNO family rolls sold was up for the quarter, while sales of the premium REX™ family rolls were basically flat. In light of challenging weather conditions during the first quarter of 2018, we are encouraged that the number of rolls shipped of the underlayment family of products increased compared to the same quarter last year.

Alpha Pro Tech, Ltd.

Sales for the Disposable Protective Apparel segment for the three months ended March 31, 2018 decreased by \$63,000, or 1.9%, to \$3,232,000, compared to \$3,295,000 for the same period of 2017. The decrease was primarily due to decreased sales to our major international supply chain partner and national distributors, partially offset by an increase in sales to our regional distributors. Sales were also impacted by a change in the mix of products sold.

Infection Control segment sales for the three months ended March 31, 2018 increased by \$24,000, or 1.6%, to \$1,541,000, compared to \$1,517,000 for the same period of 2017. Mask sales were up by 1.4%, or \$16,000, to \$1,095,000, and shield sales were up by 1.8%, or \$8,000, to \$446,000.

Gross Profit. Gross profit increased by \$161,000, or 3.7%, to \$4,455,000 for the three months ended March 31, 2018, from \$4,294,000 for the same period of 2017. The gross profit margin was 38.9% for the three months ended March 31, 2018, compared to 39.9% for the same period of 2017. Gross margin in the Building Supply segment was affected by a change in the product mix from the premium REX™ synthetic underlayment to the lower priced TECHNO family of products and gross margin in the Disposable Protective Apparel segment was affected by increased rebates. Management expects gross profit margin to be reduced in 2018 but still to be in the high thirty percent range.

Selling, General and Administrative Expenses. Selling, general and administrative expenses increased by \$407,000, or 11.7%, to \$3,881,000 for the three months ended March 31, 2018 from \$3,474,000 for the three months ended March 31, 2017. As a percentage of net sales, selling, general and administrative expenses increased to 33.9% for the three months ended March 31, 2018, from 32.3% for the same period of 2017. The increase in selling, general and administrative expenses was primarily the result of the accrual of expenses associated with the mediated settlement of the litigation matter described in Note 13 of the notes to our unaudited condensed consolidated financial statements, which appear elsewhere in this report, and in Part II, Item 1 – Legal Proceedings.

The Company has accrued the full amount of the mediated settlement. The Company is in the process of evaluating, with new litigation counsel, avenues for recovery of the mediated settlement and recover of attorneys' fees and cost from former litigation counsel. Any amount that might be recovered in connection with any such claims cannot be reasonably estimated at this time.

Excluding the accrual for the litigation settlement expense discussed above, selling, general and administrative expenses would have been relatively flat as compared to the same period last year.

The change in expenses by segment was as follows: Building Supply was up \$117,000, or 9.8%; Disposable Protective Apparel was up \$97,000, or 10.9%; Infection Control was down \$1,000, or 0.5%; and corporate unallocated expenses were up \$194,000, or 15.6%. The increases in the Building Supply and Disposable Protective Apparel segments were primarily as a result of our expanded sales team and enhancement of our marketing programs to support future growth.

In accordance with the terms of his employment agreement the Company's President and Chief Executive Officer is entitled to a bonus equal to 5% of the pre-tax profits of the Company, excluding bonus expense. A bonus of \$32,000 was accrued for the three months ended March 31, 2018, as compared to \$41,000 for the same period of 2017.

Depreciation and Amortization. Depreciation and amortization expense decreased by \$8,000, or 5.2%, to \$146,000 for the three months ended March 31, 2018, from \$154,000 for the three months ended March 31, 2017.

Income from Operations. Income from operations decreased by \$238,000, or 35.7%, to \$428,000 for the three months ended March 31, 2018, compared to \$666,000 for the three months ended March 31, 2017. The decreased income from operations was primarily due to an increase in selling, general and administrative expenses of \$407,000, partially offset by an increase in gross profit of \$161,000 and a decrease in depreciation and amortization expense of \$8,000. Due to the litigation settlement discussed previously, legal expense was significantly higher during the three months ended March 31, 2018 and excluding the legal expense, income from operations would have increased significantly for the three months ended March 31, 2018 compared to the same period of 2017.

Alpha Pro Tech, Ltd.

Other Income. Other income increased by \$66,000, or 62.3%, to \$172,000 for the three months ended March 31, 2018, from \$106,000 for the same period of 2017. Other income consisted primarily of equity in income of unconsolidated affiliate of \$139,000, unrealized gain on marketable securities of \$32,000 and interest income of \$1,000 for the three months ended March 31, 2018. Other income consisted primarily of equity in income of unconsolidated affiliate of \$105,000 and interest income of \$1,000 for the three months ended March 31, 2017.

Income before Provision for Income Taxes. Income before provision for income taxes for the three months ended March 31, 2018 was \$600,000, compared to income before provision for income taxes of \$772,000 for the three months ended March 31, 2017, representing a decrease of \$172,000, or 22.3%. This decrease in income before provision for income taxes was primarily due to a decrease in income from operations of \$238,000, partially offset by an increase in other income of \$66,000. Due to the litigation settlement discussed above, legal expense was significantly higher during the three months ended March 31, 2018, and excluding the legal expense, income before provision for income tax would have increased significantly for the three months ended March 31, 2018 compared to the same period of 2017.

Provision for Income Taxes. The provision for income taxes for the three months ended March 31, 2018 was \$92,000, compared to \$222,000 for the same period of 2017. The effective tax rate was 15.3% for the three months ended March 31, 2018, compared to 28.8% for the same period of 2017. The lower effective rate for the three months ended March 31, 2018 compared to the same period of 2017 is due to U.S. tax reform (U.S. Tax Cuts and Jobs Act) that was enacted in December 2017.

The Company does not record a tax provision on equity in income of unconsolidated affiliate. For the three months ended March 31, 2018, the effective tax rate would have been 20.0% if the equity in income of unconsolidated affiliate were taxable. For the three months ended March 31, 2017, the estimated effective tax rate would have been 33.3% if the equity in income of unconsolidated affiliate were taxable.

Net Income. Net income for the three months ended March 31, 2018 was \$508,000, compared to net income of \$550,000 for the same period of 2017, representing a decrease of \$42,000, or 7.6%. The net income decrease was due to a decrease in income before provision for income taxes of \$172,000, partially offset by a decrease in provision for income taxes of \$130,000. Net income as a percentage of net sales for the three months ended March 31, 2018 was 4.4%, and net income as a percentage of net sales for the same period of 2017 was 5.1%. Basic and diluted earnings per common share for the three months ended March 31, 2018 and 2017 were \$0.04. Net income for the three months

ended March 31, 2018, excluding the litigation settlement expense would have been significantly higher than the three months ended March 31, 2017.

LIQUIDITY AND CAPITAL RESOURCES

As of March 31, 2018, we had cash of \$5,666,000 and working capital of \$24,169,000, representing a decrease in working capital of \$8,000, from December 31, 2017. As of March 31, 2018, our current ratio (current assets/current liabilities) was 10:1, compared to the same 10:1 current ratio as of December 31, 2017. Cash decreased by 35.3%, or \$3,097,000, to \$5,666,000 as of March 31, 2018, compared to \$8,763,000 as of December 31, 2017. The decrease in cash was due to cash used in operating activities of \$2,496,000, cash used in financing activities of \$499,000 and cash used in investing activities of \$102,000.

We have a \$3,500,000 credit facility with Wells Fargo Bank, consisting of a line of credit with interest at prime plus 0.5%. As of March 31, 2018, the prime interest rate was 4.75%. This credit line will expire in March 2019. The available line of credit is based on a formula of eligible accounts receivable and inventories. Our borrowing capacity on the line of credit was \$3,500,000 as of March 31, 2018. As of March 31, 2018, we did not have any borrowings under this credit facility and do not anticipate using it in the near future.

Net cash used in operating activities of \$2,496,000 for the three months ended March 31, 2018 was due to net income of \$508,000, impacted primarily by the following: stock-based compensation expense of \$78,000, depreciation and amortization expense of \$146,000, unrealized gain on marketable securities of \$32,000 equity in income of unconsolidated affiliate of \$139,000, an increase in accounts receivable of \$1,886,000, an increase in prepaid expenses of \$790,000, an increase in inventory of \$386,000, and an increase in accounts payable and accrued liabilities of \$5,000.

Alpha Pro Tech, Ltd.

Net cash provided by operating activities of \$162,000 for the three months ended March 31, 2017 was due to net income of \$550,000, adjusted primarily by the following: stock-based compensation expense of \$81,000, depreciation and amortization of \$154,000, equity in income of unconsolidated affiliate of \$105,000, an increase in accounts receivable of \$801,000, a decrease in inventory of \$315,000, a decrease in prepaid expenses of \$390,000 and a decrease in accounts payable and accrued liabilities of \$423,000.

Accounts receivable increased by \$1,886,000, or 38.0%, to \$6,844,000 as of March 31, 2018, from \$4,958,000 as of December 31, 2017. The increase in accounts receivable was primarily related to extended payment terms that we provided on most Building Supply segment sales through the end of the first quarter of 2018 to remain competitive, as our competition also offers these extended payment terms. We started this program in late December 2017, and the majority of these receivables are due to be collected in the second quarter of this year. The number of days that sales remained outstanding as of March 31, 2018, calculated by using an average of accounts receivable outstanding and annual revenue, was 46 days, compared to 41 days as of December 31, 2017.

Inventory increased by \$386,000, or 3.8%, to \$10,635,000 as of March 31, 2018, from \$10,249,000 as of December 31, 2017. The increase was primarily due to an increase in inventory for the Disposable Protective Apparel segment of \$73,000, or 2.1%, to \$3,537,000, an increase in inventory for the Building Supply segment of \$225,000, or 4.9%, to \$4,794,000, and an increase in inventory for the Infection Control segment of \$88,000, or 4.0%, to \$2,304,000.

Prepaid expenses and other current assets increased by \$790,000, or 29.6%, to \$3,455,000 as of March 31, 2018, from \$2,655,000 as of December 31, 2017. The increase was primarily due to an increase in deposits for the purchase of inventory and prepaid insurance.

Accounts payable and accrued liabilities as of March 31, 2018 increased by \$5,000, or 0.2%, to \$2,806,000, from \$2,801,000 as of December 31, 2017. The change was primarily due to an increase in accrued liabilities, partially offset by a decrease in trade payables.

Net cash used in investing activities was \$102,000 for the three months ended March 31, 2018, compared to net cash used in investing activities of \$584,000 for the same period of 2017. Investing activities for the three months ended March 31, 2018 consisted of the purchase of property and equipment of \$102,000. Investing activities for the three

months ended March 31, 2017 consisted of the purchase of property and equipment of \$584,000.

Net cash used in financing activities was \$499,000 for the three months ended March 31, 2018, compared to net cash used in financing activities of \$1,150,000 for the same period of 2017. Net cash used in financing activities for the three months ended March 31, 2018 resulted from the payment of \$576,000 for the repurchase of common stock, partially offset by proceeds of \$77,000 from the exercise of stock options. Net cash used in financing activities for the three months ended March 31, 2017 resulted from the payment of \$1,150,000 for the repurchase of common stock.

As of March 31, 2018, we had \$1,703,000 available for additional stock purchases under our stock repurchase program. For the three months ended March 31, 2018, we repurchased 153,000 shares of common stock at a cost of \$576,000. As of March 31, 2018, we had repurchased a total of 16,357,007 shares of common stock at a cost of \$29,517,000 through our repurchase program. We retire all stock upon repurchase. Future repurchases are expected to be funded from cash on hand and cash flows from operating activities.

We believe that our current cash balance and the funds available under our credit facility will be sufficient to satisfy our projected working capital and planned capital expenditures for the foreseeable future.

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Recent Accounting Pronouncements

Accounting Standards Update (“ASU”) 2014-09, *Revenue from Contracts with Customers* (Topic 606) (“ASU 2014-09”) is a comprehensive new revenue recognition model requiring a company to recognize revenue to depict the transfer of goods or services to a customer at an amount reflecting the consideration that it expects to receive in exchange for those goods or services. In adopting ASU 2014-09, companies may use either a full retrospective or a modified retrospective approach. ASU 2014-09 is effective for the first interim period within an annual reporting period beginning after December 15, 2017, and early adoption is not permitted. The Company adopted ASU 2014-09 during the first quarter of 2018. Management evaluated the provisions of this update and has determined that its adoption did not have a significant impact on the Company’s financial position or results of operations.

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments - Overall* (Subtopic 825-10): *Recognition and Measurement of Financial Assets and Financial Liabilities*, which provides guidance for the recognition, measurement, presentation and disclosure of financial instruments. The new guidance revises the accounting requirements related to the classification and measurement of investments in equity securities and the presentation of certain fair value changes for financial liabilities measured at fair value. The guidance also changes certain disclosure requirements associated with the fair value of financial instruments. These changes will require an entity to measure, at fair value, investments in equity securities and other ownership interests in an entity and recognize the changes in fair value within net income. The guidance is effective for fiscal years and interim periods within those years beginning after December 15, 2017. As a result of adopting this guidance effective January 1, 2018, the Company recorded a cumulative-effect adjustment to reclassify the \$458,000 accumulated other comprehensive loss balance to retained earnings, which balance was the result of unrealized losses on marketable securities. Effective, January 1, 2018 unrealized gains and losses on marketable securities are recorded on the statement of income.

In February 2016, the FASB issued ASU 2016-02, *Leases* (Topic 842), which requires lessees to recognize most leases on the balance sheet. The provisions of this guidance are effective for annual periods beginning after December 15, 2018 and interim periods within those years, with early adoption permitted. Management is evaluating the requirements of this guidance and has not yet determined the impact of the adoption on the Company’s financial position or results of operations.

In March 2016, the FASB issued ASU 2016-09, *Compensation - Stock Compensation* (Topic 718): *Improvements to Employee Share-Based Payment Accounting*, which simplifies several aspects of accounting for share-based payment

transactions, including the income tax consequences, classification of awards as either equity or liabilities, an option to recognize gross stock compensation expense with actual forfeitures recognized as they occur, as well as certain classifications on the statement of cash flows. The provisions of this guidance were effective for annual reporting periods beginning after December 15, 2016 and interim periods within those annual periods, with early adoption permitted. The Company adopted this guidance during the quarter ended March 31, 2017, and the Company recorded a one-time \$866,000 cumulative-effect adjustment to reduce additional paid-in capital and increase retained earnings for excess tax benefits from stock option exercises that had previously been recorded to additional paid-in capital. The adoption of this guidance also increased the number of dilutive shares because excess tax benefits are no longer included in the assumed proceeds when calculating the number of dilutive shares. In addition, the effective tax rate will be reduced in future periods when there are excess tax benefits from stock options exercised.

Management periodically reviews new accounting standards that are issued. Management has not identified any other new standards that it believes merit further discussion at this time.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

As a smaller reporting company, we are not required to provide the information otherwise required by this Item.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures.

Under the supervision and with the participation of our management, including our President and Chief Executive Officer (principal executive officer) and our Chief Financial Officer (principal financial officer), we evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and Rule 15d-15(e) under the Securities Exchange Act of 1934 (the “Exchange Act”)), as of March 31, 2018, pursuant to the evaluation of these controls and procedures required by Rule 13a-15 of the Exchange Act. Disclosure controls and procedures are the controls and other procedures that we have designed to ensure that we record, process, summarize and report in a timely manner the information that we must disclose in reports that we file with or submit to the SEC under the Exchange Act.

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In designing and evaluating our disclosure controls and procedures, we recognize that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives and that we are required to apply our judgment in evaluating the cost-benefit relationship of possible controls and procedures.

Based on the evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report.

Changes in Internal Control Over Financial Reporting

During the quarter to which this report relates, there was no change in our internal control over financial reporting (as such term is defined in Rule 13a-15(f) and Rule 15d-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

The Company has been involved in protracted litigation against a competitor in an action styled Alpha Pro Tech, Inc. v. VWR International, LLC, pending in the U.S. District Court for the Eastern District of Pennsylvania, CV 12-1615, wherein the Company originally sought damages for unfair trade practices and false advertising against the competitor, and the competitor counterclaimed asserting similar claims against the Company. In August of 2017, the court ruled against the Company on its claims against the competitor. The competitor, as the prevailing party with respect to those claims, subsequently filed a motion seeking to recover from the Company an amount in excess of \$2 million in attorneys' fees and costs, which motion was granted by the court. In November of 2017, the Company, in consultation with new litigation counsel, filed a motion to reconsider the attorneys' fee award. The court heard

arguments on the motion to reconsider at a hearing in February of 2018. At the hearing, the court encouraged the parties to attempt to settle the matter in advance of a ruling on the motion to reconsider (which motion was ultimately denied), and the parties subsequently mediated the matter in April of 2018. As a result of the mediation and the parties' further discussions, the parties have reached an agreement in principle for the terms of a settlement of the attorneys' fee claim and are currently working together to document the settlement terms. The Company has accrued in its financial statements the amount agreed upon for the settlement. The Company is in the process of evaluating avenues for recovery of the settlement amount from former litigation counsel; however, there can be no assurance as to the ultimate amount of any such recovery.

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ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS
ISSUER PURCHASES OF EQUITY SECURITIES

The following table sets forth purchases made by or on behalf of the Company or any “affiliated purchaser,” as defined in Rule 10b-18(a)(3) of the Exchange Act:

Period	Issuer Purchases of Equity Securities			
	Total Number of Shares Purchased	Weighted Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Program (1)	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Program (1)
January 1 - 31, 2018	52,800	\$ 3.90	52,800	\$ 2,071,000
February 1 - 28, 2018	56,600	3.74	56,600	1,857,000
March 1 - 31, 2018	43,600	3.48	43,600	1,703,000
	153,000	3.72	153,000	

(1) On December 22, 2017, the Company announced that the Board of Directors had authorized a \$2,000,000 expansion of the Company’s existing share repurchase program.

SECURITIES SOLD

We did not sell unregistered equity securities during the period covered by this report.

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Alpha Pro Tech, Ltd.

ITEM 6. EXHIBITS

- 3.1.1 Certificate of Incorporation of Alpha Pro Tech, Ltd., incorporated by reference to Exhibit 3(f) to Form 10-K for the year ended December 31, 1994, filed on March 31, 1995 (File No. 000-19893).
- 3.1.2 Certificate of Amendment of Certificate of Incorporation of Alpha Pro Tech, Ltd., incorporated by reference to Exhibit 3(j) to Form 10-K for the year ended December 31, 1994, filed on March 31, 1995 (File No. 000-19893).
- 3.1.3 Certificate of Ownership and Merger (BFD Industries, Inc. into Alpha Pro Tech, Ltd.), incorporated by reference to Exhibit 3(l) to Form 10-K for the year ended December 31, 1994, filed on March 31, 1995 (File No. 000-19893).
- 3.2 Bylaws of Alpha Pro Tech, Ltd., incorporated by reference to Exhibit 3(g) to Form 10-K for the year ended December 31, 1994, filed on March 31, 1995 (File No. 000-19893).
- 31.1 Certification of President and Chief Executive Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act, as amended.
- 31.2 Certification of Chief Financial Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act, as amended.
- 32.1 Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 – President and Chief Executive Officer.
- 32.2 Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 – Chief Financial Officer.
- 101 Interactive Data Files for Alpha Pro Tech, Ltd's Form 10-Q for the period ended March 31, 2018.

Alpha Pro Tech, Ltd.

SIGNATURES

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

ALPHA PRO TECH, LTD.

DATE: May 9, 2018 BY:/s/ Lloyd Hoffman

Lloyd Hoffman
President and Chief Executive Officer

DATE: May 9, 2018 BY:/s/Colleen McDonald

Colleen McDonald
Chief Financial Officer