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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended June 30, 2017

Or

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

For the transition period from \_\_\_\_\_

Commission file number: 001-36333

**Bio-Path Holdings, Inc.**

(Exact name of registrant as specified in its charter)

Delaware

\_\_\_\_\_  
(State or other jurisdiction of  
incorporation or organization)

87-0652870

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

4710 Bellaire Boulevard, Suite 210, Bellaire, Texas 77401  
(Address of principal executive offices)

Registrant's telephone no., including area code: (832) 742-1357

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

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

Emerging growth company

Accelerated filer

Smaller reporting 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

At August 1, 2017, the Company had 100,056,988 outstanding shares of common stock, par value \$0.001 per share.

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Unless the context requires otherwise, references in this Quarterly Report on Form 10-Q to “we,” “our,” “us,” “the Company” and “Bio-Path” refer to Bio-Path Holdings, Inc. and its wholly-owned subsidiary. Bio-Path Holdings, Inc.’s wholly-owned subsidiary, Bio-Path, Inc., is sometimes referred to herein as “Bio-Path Subsidiary.”

#### **CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS**

This Quarterly Report on Form 10-Q contains “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Forward-looking statements can be identified by words such as “anticipate,” “expect,” “intend,” “plan,” “believe,” “seek,” “estimate,” “project,” “goal,” “strategy,” “future,” “likely,” “may,” “should,” “will” and variations of these words and similar references to future periods, although not all forward-looking statements contain these identifying words. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent risks, uncertainties and changes in circumstances, including those discussed in “Item 1A. Risk Factors” to Part I of our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016, and in other reports or documents we file with the U.S. Securities and Exchange Commission (“SEC”). As a result, our actual results may differ materially from those expressed or forecasted in the forward-looking statements, and you should not rely on such forward-looking statements. Please refer to “Item 1A. Risk Factors” to Part I of our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016, and other reports or documents we file with the SEC for a discussion of risks and factors that could cause our actual results and financial condition to differ materially from those expressed or forecasted in this Quarterly Report on Form 10-Q.

Any forward-looking statement made by us in this Quarterly Report on Form 10-Q is based only on information currently available to us and speaks only as of the date on which it is made. We undertake no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise. However, you should carefully review the risk factors set forth in other reports or documents we file from time to time with the SEC.

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PART I - FINANCIAL INFORMATION

ITEM 1. CONSOLIDATED FINANCIAL STATEMENTS

BIO-PATH HOLDINGS, INC.

CONSOLIDATED BALANCE SHEETS  
(In thousands, except par value)  
(Unaudited)

	<u>As of June 30, 2017</u>	<u>As of December 31, 2016</u>
<b>Assets</b>		
Current assets		
Cash	\$ 6,182	\$ 9,375
Prepaid drug product for testing	592	376
Other current assets	1,011	902
Total current assets	7,785	10,653
Fixed assets		
Furniture, fixtures & equipment	999	708
Less accumulated depreciation	(202)	(94)
	797	614
Other assets		
Technology licenses	2,500	2,500
Less accumulated amortization	(1,651)	(1,571)
	849	929
<b>Total Assets</b>	<u>\$ 9,431</u>	<u>\$ 12,196</u>
<b>Liabilities &amp; Shareholders' Equity</b>		
Current liabilities		
Accounts payable	\$ 96	\$ 69
Accrued expenses	468	969
Deferred revenue	12	12
Total current liabilities	576	1,050
Warrant liability	-	2,906
<b>Total Liabilities</b>	576	3,956
Shareholders' equity		
Preferred stock, \$.001 par value; 10,000 shares authorized; no shares issued and outstanding	-	-
Common stock, \$.001 par value; 200,000 shares authorized; 100,057 and 95,645 shares issued and outstanding, respectively	100	96
Additional paid in capital	43,271	40,278
Accumulated deficit	(34,516)	(32,134)
Total shareholders' equity	8,855	8,240
<b>Total Liabilities &amp; Shareholders' Equity</b>	<u>\$ 9,431</u>	<u>\$ 12,196</u>

SEE ACCOMPANYING NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

BIO-PATH HOLDINGS, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS  
(In thousands, except per share amounts)  
(Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2017	2016	2017	2016
<b>Revenue</b>	\$ -	\$ -	\$ -	\$ -
<b>Operating expenses</b>				
Research and development	1,480	1,187	2,506	2,207
General and administrative	845	757	1,815	1,606
Total operating expenses	2,325	1,944	4,321	3,813
<b>Net operating loss</b>	\$ (2,325)	\$ (1,944)	\$ (4,321)	\$ (3,813)
<b>Other income (loss)</b>				
Change in fair value of warrant liability	778	-	2,374	-
Loss on extinguishment of warrant liability	(440)	-	(440)	-
Interest income	2	2	5	4
<b>Total other income</b>	340	2	1,939	4
<b>Net loss</b>	(1,985)	(1,942)	(2,382)	(3,809)
<b>Deemed dividend related to warrant conversion</b>	(1,038)	-	(1,038)	-
<b>Net loss attributable to common stockholders</b>	\$ (3,023)	\$ (1,942)	\$ (3,420)	\$ (3,809)
<b>Net loss per share, basic and diluted</b>	\$ (0.03)	\$ (0.02)	\$ (0.04)	\$ (0.04)
<b>Basic and diluted weighted average number of common shares outstanding</b>	98,586	89,763	97,116	89,763

SEE ACCOMPANYING NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**BIO-PATH HOLDINGS, INC.**

**CONSOLIDATED STATEMENTS OF CASH FLOWS**  
(In thousands)  
(Unaudited)

	<b>Six Months Ended June 30,</b>	
	<b>2017</b>	<b>2016</b>
<b>Cash flow from operating activities</b>		
Net loss	\$ (2,382)	\$ (3,809)
Adjustments to reconcile net loss to net cash used in operating activities		
Amortization	80	80
Depreciation	108	21
Stock-based compensation	507	318
Change in fair value of warrant liability	(2,374)	-
Loss on extinguishment of warrant liability	440	-
(Increase) decrease in assets		
Prepaid drug product for testing	(216)	(19)
Other current assets	(109)	(1,097)
Increase (decrease) in liabilities		
Accounts payable and accrued expenses	(257)	(124)
Net cash used in operating activities	(4,203)	(4,630)
<b>Cash flow from investing activities</b>		
Purchases of furniture, fixtures & equipment	(538)	-
Net cash used in investing activities	(538)	-
<b>Cash flow from financing activities</b>		
Net proceeds from exercise of warrants	1,548	-
Net cash provided by financing activities	1,548	-
<b>Net decrease in cash</b>	<b>(3,193)</b>	<b>(4,630)</b>
Cash, beginning of period	9,375	8,854
Cash, end of period	\$ 6,182	\$ 4,224
<b>Supplemental disclosure of non-cash activities</b>		
Non-cash financing activities		
Incremental fair value of warrant liability modification	\$ 797	\$ -
Conversion of warrant liability to equity	\$ 175	\$ -
Offering expenses included in accrued expense	\$ 30	\$ -

SEE ACCOMPANYING NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## BIO-PATH HOLDINGS, INC.

### Notes to the Unaudited Consolidated Financial Statements for the Period Ended June 30, 2017

Unless the context requires otherwise, references in these Notes to the Unaudited Consolidated Financial Statements to “we,” “our,” “us,” “the Company” and “Bio-Path” refer to Bio-Path Holdings, Inc. and its subsidiary. Bio-Path Holdings, Inc.’s wholly-owned subsidiary, Bio-Path, Inc., is sometimes referred to herein as “Bio-Path Subsidiary.”

The accompanying interim financial statements have been prepared in accordance with the instructions to Form 10-Q pursuant to the rules and regulations of the Securities and Exchange Commission (“SEC”) and, therefore, do not include all information and footnotes necessary for a complete presentation of the Company’s financial position, results of operations, cash flows, and stockholders’ equity in conformity with generally accepted accounting principles. In the opinion of management, all adjustments considered necessary for a fair presentation of the results of operations and financial position have been included and all such adjustments are of a normal recurring nature. The unaudited quarterly financial statements should be read in conjunction with the audited financial statements and notes thereto included in the Annual Report on Form 10-K of the Company as of and for the fiscal year ended December 31, 2016. The results of operations for the period ended June 30, 2017, are not necessarily indicative of the results for a full-year period.

#### 1. Organization and Business

The Company is a clinical and preclinical stage oncology focused RNAi nano particle drug development company utilizing a novel technology that achieves systemic delivery of antisense drug substances for target specific protein inhibition for any gene product that is over-expressed in disease. The Company’s drug delivery and antisense technology, called DNAbilize™, is a platform that uses P-ethoxy, which is a deoxyribonucleic acid (DNA) backbone modification that is intended to protect the DNA from destruction by the body’s enzymes *in vivo*, incorporated inside of a neutral charge lipid bilayer. The Company believes this combination allows for high efficiency loading of antisense DNA into non-toxic, cell-membrane-like structures for delivery of the antisense drug substance into cells. *In vivo*, the DNAbilize™ delivered antisense drug substances are systemically distributed throughout the body to allow for reduction or elimination of targeted proteins in blood diseases and solid tumors.

Using DNAbilize™ as a platform for drug development and manufacturing, we currently have two antisense drug candidates in development to treat a total of five different disease indications. Our lead drug candidate, prexigebersen (pronounced prex’ i je ber’ sen), targets the protein Grb2 and has entered the efficacy portion of a Phase II clinical trial for acute myeloid leukemia (AML) and is preparing to enter the safety segment of a Phase II clinical trial for blast phase and accelerated phase chronic myelogenous leukemia (CML). Prexigebersen is also in preclinical studies for solid tumors, including breast cancer and ovarian cancer.

The Company’s second drug candidate, Liposomal Bcl2 (“BP1002”), targets the protein Bcl2, which is responsible for driving cell proliferation in up to 60% of all cancers. BP1002 is in preparation for an Investigational New Drug application.

Bio-Path Subsidiary was founded in May 2007 as a Utah corporation. In February 2008, Bio-Path Subsidiary completed a reverse merger with Ogden Golf Co. Corporation, a public company traded over the counter that had no current operations. The name of Ogden Golf was changed to Bio-Path Holdings, Inc. and the directors and officers of Bio-Path, Inc. became the directors and officers of Bio-Path Holdings, Inc. The Company’s operations to date have been limited to organizing and staffing the Company, acquiring, developing and securing its technology and undertaking product development for a limited number of product candidates.

In June 2015, the Company established an “at the market” (“ATM”) program through which it may offer and sell up to \$25.0 million of its common stock from time to time, at Bio-Path’s discretion, through an investment banking firm, acting as sales agent. Sales of Bio-Path common stock under the ATM program will be made directly on or through the NASDAQ Capital Market, among other methods. Pursuant to the Securities Purchase Agreement (as defined below), the Company is subject to certain restrictions on its ability to offer and sell shares of common stock under the ATM program. To date, the Company has not offered or sold any shares of its common stock under the ATM program.

In June 2016, the Company entered into the Securities Purchase Agreement with certain healthcare focused institutional investors pursuant to which the Company agreed to sell an aggregate of 5,882,352 shares of the Company’s common stock and warrants (the “2016 Registered Warrants”) to purchase up to 2,941,176 shares of the Company’s common stock for gross proceeds of approximately \$10.0 million (the “2016 Registered Direct Offering”). The 2016 Registered Direct Offering closed on July 5, 2016. The Company also issued warrants (the “2016 Placement Warrants,” and together with the 2016 Registered Warrants, the “2016 Warrants”) to purchase up to 250,000 shares of our common stock in a private placement to H.C. Wainwright & Co., LLC and its designees as compensation for its services as a placement agent in connection with the 2016 Registered Director Offering. The net proceeds to the Company from the 2016 Registered Direct Offering, after deducting the placement agent’s fees and expenses and the Company’s offering expenses, and excluding the proceeds from the exercise of the warrants issued in the offering, were approximately \$9.3 million. These proceeds were partially offset by additional financing costs incurred during the period of \$0.3 million.

On May 21, 2017, the Company entered into Warrant Exercise Agreements (the “Exercise Agreements”) with certain holders (the “Exercising Holders”) of the 2016 Warrants and warrants (the “2014 Warrants,” and together with the 2016 Warrants, the “Original Warrants”) to purchase up to 2,500,000 shares of common stock that we issued in January 2014. The Exercising Holders owned, in the aggregate, Original Warrants exercisable for 4,411,764 shares of our common stock. Pursuant to the Exercise Agreements, the Exercising Holders and the Company agreed that the Exercising Holders would exercise their Original Warrants with respect to 4,300,000 shares of our common stock underlying such Original Warrants for a reduced exercise price equal to \$0.38 per share (the “Reduced Exercise Price”). The Exercising Holders also subsequently exercised their Original Warrants for the remaining 111,764 shares of our common stock underlying such Original Warrants for the Reduced Exercise Price. In connection with the execution of the Exercise Agreements, we issued to each Exercising Holder a new warrant (each, a “New Warrant”) to purchase shares of our common stock equal to the number of shares of our common stock received by such Exercising Holder upon exercise of such Exercising Holder’s Original Warrants. The terms of the New Warrants are substantially similar to the terms of the Original Warrants, except that the New Warrants (i) became exercisable immediately upon issuance for a period of five years from the closing date of the Exercise Agreements; (ii) have an exercise price equal to \$0.60 per share and (iii) included revised language substantially similar to the language in the Warrant Amendments described below regarding fundamental transactions and net cash settlement. As noted below, this modified language results in the New Warrants qualifying for equity treatment on the Company’s Consolidated Balance Sheet as of June 30, 2017. The net proceeds to the Company from the exercise of the New Warrants by the Exercising Holders, after deducting financial advisory fees and expenses and our offering expenses, were approximately \$1.5 million.

On June 13, 2017, the Company entered into amendments (the “Warrant Amendments”) with holders (the “Holders”) of the remaining 2016 Warrants, which amended the terms of their 2016 Warrants with respect to 1,279,412 shares of our common stock. The Warrant Amendments provide that (i) the Holders’ right to require the Company to purchase the outstanding warrants upon the occurrence of certain fundamental transactions will not apply if the fundamental transaction is a result of a transaction that has not been approved by the Board and (ii) in the event the Company does not have an effective registration statement registering the issuance of the underlying shares of our common stock to the Holders, there is no circumstance that would require the Company to net cash settle the outstanding warrants. As such, the changes made in the Warrant Amendments allow for equity treatment of the remaining 2016 Warrants. As a result of the Exercise Agreements and the Warrant Amendments, the Company’s Warrant Liability was extinguished as of June 30, 2017, allowing the New Warrants and the remaining 2016 Warrants, as amended, to be treated as equity for all filings beginning with the quarter ended June 30, 2017.



The Exercise Agreements for the 2014 Warrants resulted in the holders receiving \$1.0 million in incremental value over the value of the warrants at the exchange date. This incremental value was recorded as a deemed dividend in additional paid-in capital due to the absence of retained earnings and increased the net loss available to common shareholders on the Consolidated Statements of Operations. The Exercise Agreements for the 2016 Warrants resulted in warrants with a fair value of \$0.4 million being extinguished and resulted in the recognition of a loss on extinguishment of warrants of \$0.4 million. Additionally, the Warrant Amendments resulted in the reclassification of the remaining 2016 Warrants with a fair value of \$0.2 million from liability presentation to equity treatment on the Consolidated Balance Sheet as of June 30, 2017.

As of June 30, 2017, the Company had \$6.2 million in cash on hand, compared to \$9.4 million as of December 31, 2016. Management has completed its analysis of the Company's cash needs and determined that it has enough cash on hand to meet obligations and fund operations and capital expenditures for at least the next 12 months from the report date included herein. We expect to finance our foreseeable cash requirements through cash on hand, debt financings and public or private equity offerings. Additionally, we may seek collaborations and license arrangements for our drug candidates. We may seek to access the public or private equity markets whenever conditions are favorable. We currently have no lines of credit or other arranged access to debt financing. If the Company is unable to obtain funding due to unfavorable terms or market conditions, management has determined that it can reduce spending on its day-to-day operations, sell laboratory assets and temporarily delay planned activities if needed.

As the Company has not begun its planned principal operations of commercializing a product candidate, the Company's activities are subject to significant risks and uncertainties, including the potential requirement to secure additional funding, the outcome of the Company's clinical trials, and failing to operationalize the Company's current drug candidates before another company develops similar products.

## **2. Recent Accounting Pronouncements**

In May 2014, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2014-09, *Revenue from Contracts with Customers*. The new standard provides comprehensive guidance for recognizing revenue as goods or services are delivered to the customer in an amount that is expected to be earned from those same goods or services. ASU 2014-09 was scheduled to be effective for annual reporting periods beginning after December 15, 2016, and early adoption was not permitted. In August 2015, the FASB issued ASU No. 2015-14, "Revenue from Contracts with Customers: Deferral of Effective Date", which defers the effective date of ASU 2014-09 by one year. ASU 2014-19 is now effective for annual periods beginning after December 15, 2017, including interim periods within that reporting period. Early application is permitted only for annual periods beginning after December 15, 2016, including interim periods within that reporting period and allows for adoption using a full retrospective method, or a modified retrospective method. We currently anticipate adopting this standard on its effective date under the full retrospective method of adoption. We have not experienced significant issues in our implementation process and we do not anticipate any if we begin to generate revenues from the drug candidates the Company currently has under development.

In February 2016, the FASB issued ASU No. 2016-02, *Leases*. The new standard establishes a right-of-use ("ROU") model that requires a lessee to record a ROU asset and a lease liability on the balance sheet for all leases with terms longer than 12 months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the income statement. The new standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements, with certain practical expedients available. Management is currently evaluating the impact of future adoption of the new standard on the Company's consolidated financial statements.

In May 2017, the FASB issued ASU No. 2017-09, *Compensation-Stock Compensation: Scope of Modification Accounting*. The new standard requires an entity to apply modification accounting provisions if the value, vesting conditions or classification of the award changes. The new guidance must be applied on a prospective basis and is effective for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years, with early adoption permitted. Management is currently evaluating the impact of future adoption of the new standard on the Company's consolidated financial statements.

Management has reviewed all other recently issued pronouncements and has determined they will have no material impact on the Company's consolidated financial statements.

### **3. Prepaid Drug Product for Testing**

Advance payments, including nonrefundable amounts, for goods or services that will be used or rendered for future clinical development activities are deferred and capitalized. Such amounts will be recognized as an expense as the related goods are delivered or the related services are performed. The Company made payments to its contract drug manufacturing and raw material suppliers totaling \$0.4 million in late 2015 and all of 2016 pursuant to drug supply contracts for the manufacture and delivery of prexigebersen for testing in a Phase II clinical trial. This amount was carried on the Balance Sheet as of December 31, 2016 at cost as Prepaid Drug Product for Testing. The Company made additional payments during 2017, with advanced payments totaling \$0.6 million, which are carried on the Balance Sheet as of June 30, 2017 as Prepaid Drug Product for Testing (See Note 11).

### **4. Other Current Assets**

As of June 30, 2017, Other Current Assets included prepaid expenses of \$1.0 million, comprised primarily of prepayments made to the Company's clinical research organization for our clinical trials for prexigebersen in AML and CML of \$0.7 million and other prepaid expenses of \$0.3 million. As of December 31, 2016, Other Current Assets included prepaid expenses of \$0.9 million.

### **5. Accounts Payable**

As of June 30, 2017, Current Liabilities included accounts payable of \$0.1 million, comprised primarily of amounts owed for legal fees, preclinical studies and manufacturing development and testing services. As of December 31, 2016, Current Liabilities included accounts payable of \$0.1 million.

### **6. Accrued Expenses**

As of June 30, 2017, Current Liabilities included accrued expenses of \$0.5 million, comprised primarily of accrued employee vacation and bonus expenses of \$0.3 million, preclinical expense of \$0.1 million and other accrued expenses of \$0.1 million. As of December 31, 2016, Current Liabilities included accrued expense of \$1.0 million, comprised primarily of accrued employee vacation and bonus expenses of \$0.4 million, laboratory expense of \$0.2 million, clinical and preclinical expenses of \$0.2 million, an annual license maintenance fee of \$0.1 million and other accrued expenses of \$0.1 million.

### **7. Warrant Liability**

In connection with the 2016 Registered Direct Offering, the Company issued warrants to purchase up to 2,941,176 shares of the Company's common stock at \$2.30 per share to certain healthcare focused institutional investors, as well as warrants to purchase up to 250,000 shares of the Company's common stock at \$2.46 per share to H.C. Wainwright & Co., LLC and its designees as compensation for its services as the placement agent. When issued, the 2016 Warrants contained a provision for net cash settlement in the event of certain fundamental transactions involving the Company (defined in the 2016 Warrants to include, among other things, the Company's approval and consummation of a merger with another entity, the Company's approval and consummation of the sale of all or substantially all of the Company's assets or the occurrence of certain other change of control transactions).

Due to this provision and in accordance with ASC 480-10 (Distinguishing Liabilities from Equity), the 2016 Warrants were classified as a liability and recorded at fair value as calculated using the Binomial Lattice Model. The estimated fair value of the Warrant Liability for the 2016 Warrants on the closing date, July 5, 2016, was \$4.6 million.

As of June 30, 2017, and December 31, 2016, the fair values of the Warrant Liability were none and \$2.9 million, respectively. The net change in fair value of \$2.4 million for the six months ended June 30, 2017 is shown as other income on the Company's Consolidated Statements of Operations. As discussed in Note 1, certain of the 2016 Warrants were extinguished as a result of the Exercise Agreements and resulted in recognition of a loss on extinguishment of warrants of \$0.4 million. Additionally, warrants with a fair value of \$0.2 million were reclassified to equity as a result of the Warrant Amendments.

## 8. Fair Value Measurements

In accordance with ASC 820 (Fair Value Measurements and Disclosures), the Company uses various inputs to measure the 2016 Warrants on a recurring basis to determine the fair value of the liability. ASC 820 also establishes a hierarchy categorizing inputs into three levels used to measure and disclose fair value. The hierarchy gives the highest priority to quoted prices available in active markets and the lowest priority to unobservable inputs. An explanation of each level in the hierarchy is described below:

Level 1 – Unadjusted quoted prices in active markets for identical instruments that are accessible by the Company on the measurement date

Level 2 – Quoted prices in markets that are not active or inputs which are either directly or indirectly observable

Level 3 – Unobservable inputs for the instrument requiring the development of assumptions by the Company

The Company's Warranty Liability was extinguished as of June 30, 2017 (See Note 1).

The following table summarizes the Company's 2016 Warrants measured at fair value within the hierarchy on a recurring basis as of December 31, 2016:

	<b>Fair Value Measurements at December 31, 2016 (in thousands)</b>			
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total</b>
<b>Liabilities:</b>				
Warrant liability	\$ -	\$ -	\$ 2,906	\$ 2,906

The following table summarizes changes to the fair value of the Level 3 2016 Warrants for the six months ended June 30, 2017:

	<b>Fair Value of Warrant Liability (in thousands)</b>
Balance at December 31, 2016	\$ 2,906
Change in fair value	(2,374)
Extinguished	(357)
Reclassified to equity	(175)
Balance at June 30, 2017	\$ -

The Company utilized the Binomial Lattice Model for estimating the fair value of the 2016 Warrants using the following assumptions on the reclassification dates of June 13, 2017 and May 21, 2017 and as of December 31, 2016:

	As of June 13, 2017	As of May 21, 2017	As of December 31, 2016
Risk-free interest rate	1.51%	1.78%	1.93%
Expected volatility	88%	89%	98%
Expected term in years	4.6	4.6	5.0
Dividend yield	-%	-%	-%

The Company did not have the 2016 Warrants at June 30, 2016.

## 9. Stockholders' Equity

Stockholders' Equity totaled \$8.9 million as of June 30, 2017 compared to \$8.2 million as of December 31, 2016. There were 100,056,988 shares of common stock issued and outstanding as of June 30, 2017. There were no preferred shares outstanding as of June 30, 2017.

## 10. Stock-Based Compensation

**The Plan** - In 2007, the Company adopted the First Amended 2007 Stock Incentive Plan, as amended (the "Plan"). The Plan provides for the grant of Incentive Stock Options, Nonqualified Stock Options, Restricted Stock Awards, Restricted Stock Unit Awards, Performance Awards and other stock-based awards, or any combination of the foregoing to the Company's key employees, non-employee directors and consultants. Under the Plan, the exercise price is determined by the Board of Directors or the compensation committee of the Board of Directors, and for options intended to qualify as qualified incentive stock options, may not be less than the fair market value as determined by the closing stock price at the date of the grant. Each option and award shall vest and expire as determined by the Board of Directors or the compensation committee. Options expire no later than ten years from the date of grant. All grants provide for accelerated vesting if there is a change of control, as defined in the Plan.

Stock-based compensation expense was \$0.3 million and \$0.2 million for the three months ended June 30, 2017 and June 30, 2016, respectively. Of these amounts, stock-based compensation expense for personnel involved in the Company's general and administrative activities for both the three months ended June 30, 2017 and June 30, 2016 was \$0.1 million. Stock-based compensation expense for personnel involved in the Company's research and development activities for both the three months ended June 30, 2017 and June 30, 2016 was \$0.1 million.

Stock-based compensation expense was \$0.5 million and \$0.3 million for the six months ended June 30, 2017 and June 30, 2016, respectively. Of these amounts, stock-based compensation expense for personnel involved in the Company's general and administrative activities for the six months ended June 30, 2017 and June 30, 2016 was \$0.3 million and \$0.2 million, respectively. Stock-based compensation expense for personnel involved in the Company's research and development activities for the six months ended June 30, 2017 and June 30, 2016 was \$0.2 million and \$0.1 million, respectively.

The Company utilized the Black-Scholes valuation model for estimating the fair value of the stock options granted, with the following weighted-average assumptions for options granted in the six months ended June 30, 2017 and 2016:

	2017	2016
Risk-free interest rate	2.06%	1.37%
Expected volatility	99%	109%
Expected term in years	6.1	6.1
Dividend yield	-%	-%

The following summary represents option activity under the Company's stock-based compensation plan for the six months ended June 30, 2017:

	<u>Options</u> <u>(in thousands)</u>	<u>Weighted- Average Exercise Price</u>
Outstanding at December 31, 2016	7,067	\$ 1.33
Granted	657	0.77
Outstanding at June 30, 2017	<u>7,724</u>	1.28
Exercisable at June 30, 2017	<u>5,913</u>	\$ 1.12

As of June 30, 2017, the aggregate intrinsic value of outstanding stock options was \$10,000. The aggregate intrinsic value represents the total pretax intrinsic value (the difference between the Company's closing stock price on June 30, 2017 and the exercise price, multiplied by the number of in-the-money options) that would have been received by the option holders had all option holders exercised their options on June 30, 2017. This amount changes based on the fair market value of the Company's stock.

As of June 30, 2017, unamortized stock-based compensation expense for all outstanding options was \$2.0 million, which is expected to be recognized over a weighted average vesting period of 2.6 years.

#### 11. Commitments and Contingencies

**Technology License** – The Company has negotiated exclusive licenses from MD Anderson to clinically develop liposomal antisense and siRNA drug products. These licenses require, among other things, the Company to reimburse MD Anderson for ongoing patent expense and an annual license maintenance fee. The annual license maintenance fee attributable to the License Agreement totaling \$0.1 million was included in Current Liabilities as of December 31, 2016 and was paid in May 2017.

**Operating Lease** – In April 2014, the Company entered into a lease agreement for office space, which it occupied as of August 2014. The remaining lease payments due under this lease as of June 30, 2017 are \$0.2 million.

In April 2016, the Company entered into a three-year lease agreement for lab space located in Bellaire, Texas. The term of lease began on May 1, 2016 and terminates on April 30, 2019 and will require Bio-Path to pay \$2,500 per month over the term of the lease. The remaining lease payments due under this lease as of June 30, 2017 are \$0.1 million.

**Drug Supplier Project Plan** – The amounts paid for manufacture of the Company's Grb2 drug substance and prexigebersen that have not been expensed totals \$0.6 million and is carried on the balance sheet as of June 30, 2017 as Prepaid Drug Product for Testing (See Note 3). Total commitments for the Company's drug supplier project plan are \$1.3 million as of June 30, 2017, comprised of \$0.8 million to the manufacturer of prexigebersen, \$0.3 million for manufacture of our drug substance and \$0.2 million for manufacturing development.

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

When you read this Item of this Quarterly Report on Form 10-Q, it is important that you also read the unaudited financial statements and related notes included elsewhere in this Quarterly Report on Form 10-Q and our audited financial statements and notes thereto included in our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016. This Quarterly Report on Form 10-Q contains forward-looking statements that involve risks and uncertainties, such as statements of our plans, objectives, expectations, and intentions. We use words such as "anticipate," "estimate," "plan," "project," "continuing," "ongoing," "expect," "believe," "intend," "may," "will," "should," "could," and similar expressions to identify forward-looking statements. Our actual results could differ materially from those anticipated in these forward-looking statements for many reasons, including the matters discussed in "Item 1A. Risk Factors" to Part I of our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016, and other risks and uncertainties discussed in filings made with the SEC. See "Cautionary Note Regarding Forward-Looking Statements" in this Quarterly Report on Form 10-Q for additional discussion regarding risks associated with forward-looking statements.

### Overview

We are a clinical and preclinical stage oncology focused RNAi nano particle drug development company utilizing a novel technology that achieves systemic delivery for target specific protein inhibition for any gene product that is over-expressed in disease. Our drug delivery and antisense technology, called DNAbilize™, is a platform that uses P-ethoxy, which is a deoxyribonucleic acid (DNA) backbone modification that is intended to protect the DNA from destruction by the body's enzymes when circulating *in vivo*, incorporated inside of a neutral charged lipid bilayer. We believe this combination allows for high efficiency loading of antisense DNA into non-toxic, cell-membrane-like structures for delivery of the antisense drug substance into cells. *In vivo*, the DNAbilize™ delivered antisense drug substances are systemically distributed throughout the body to allow for reduction or elimination of proteins in blood diseases and solid tumors.

Using DNAbilize™ as a platform for drug development and manufacturing, we currently have two antisense drug candidates in development to treat a total of five different disease indications. Our lead drug candidate, prexigebersen (pronounced prex" i je ber' sen), has entered the efficacy portion of a Phase II clinical trial for acute myeloid leukemia (AML) and is preparing to enter the safety segment of a Phase II clinical trial for blast phase and accelerated phase chronic myelogenous leukemia (CML). Prexigebersen is also in preclinical studies for solid tumors, including triple negative breast cancer and ovarian cancer.

Our second drug candidate, Liposomal Bcl2 ("BP1002"), targets the protein Bcl2, which is responsible for driving cell proliferation in up to 60% of all cancers. BP1002 is in preparation for an Investigational New Drug (IND) application.

We have certain intellectual property as the basis for our current drug products in clinical development, prexigebersen and BP1002. We also currently maintain an exclusive license agreement (the "License Agreement") with The University of Texas, MD Anderson Cancer Center ("MD Anderson"), under which we license from MD Anderson certain technology relating to the original delivery technology platform. We are developing RNAi antisense nano particle drug candidates to treat cancer and autoimmune disorders where targeting a single protein may be advantageous and result in reduced adverse effects as compared to small molecule inhibitors with off-target and non-specific effects. We have composition of matter and method of use intellectual property for the manufacture of neutral charged DNA-liposome complexes.

As previously disclosed, on July 5, 2016, we issued warrants to purchase up to 3,191,176 shares of our common stock (the "2016 Warrants"), which included warrants to purchase up to 2,941,176 of our common stock that were issued in a registered direct offering and warrants to purchase up to 250,000 shares of our common stock that were issued in a private placement in connection with such registered direct offering. As described under the heading "Warrant Exercises" in the "Liquidity and Capital Resources" section of this Quarterly Report on Form 10-Q, on May 21, 2017, certain holders of the 2016 Warrants exercised their 2016 Warrants with respect to 1,911,764 shares of our common stock. On June 13, 2017, we entered into amendments (the "Warrant Amendments") with holders (the "Holders") of the remaining 2016 Warrants, which amended the terms of their 2016 Warrants with respect to 1,279,412 shares of our common stock. The Warrant Amendments provide that (i) the Holders' right to require the Company to purchase the outstanding warrants upon the occurrence of certain fundamental transactions will not apply if the fundamental transaction is a result of a transaction that has not been approved by the Board and (ii) in the event the Company does not have an effective registration statement registering the issuance of the underlying shares of our common stock to the Holders, there is no circumstance that would require the Company to net cash settle the outstanding warrants. The changes made in the Warrant Amendments allow for equity treatment of the remaining 2016 Warrants. As a result of the Warrant Amendments and the warrant exercises, the Company's Warrant Liability was extinguished as of June 30, 2017, allowing the remaining 2016 Warrants, as amended, and the New Warrants (as described under the heading "Warrant Exercises" in the "Liquidity and Capital Resources" section of this Quarterly Report on Form 10-Q) to be treated as equity for all filings beginning with the quarter ended June 30, 2017.

As of June 30, 2017, we had an accumulated deficit of \$34.5 million. Our net loss was \$2.0 million and \$1.9 million for the three months ended June 30, 2017 and 2016, respectively. Our net loss was \$2.4 million and \$3.8 million for the six months ended June 30, 2017 and 2016, respectively. We expect to continue to incur significant operating losses and we anticipate that our losses may increase substantially as we expand our drug development programs and commercialization efforts. To achieve profitability, we must enter into license or development agreements with third parties, or successfully develop and obtain regulatory approval for one or more of our drug candidates and effectively commercialize any drug candidates we develop. In addition, if we obtain regulatory approval of one or more of our drug candidates, we expect to incur significant commercialization expenses related to product sales, marketing, manufacturing and distribution. There can be no assurance that we will be able to raise additional capital when needed or on terms that are favorable to us, if at all. Even if we succeed in developing and commercializing one or more of our drug candidates, we may not be able to generate sufficient revenue and we may never be able to achieve or sustain profitability.

## **Basic Technical Information**

Ribonucleic acid (RNA) is a biologically significant type of molecule consisting of a chain of nucleotide units. Each nucleotide consists of a nitrogenous base, a ribose sugar and a phosphate. Although similar in some ways to DNA, RNA differs from DNA in a few important structural details. RNA is transcribed from DNA by enzymes called RNA polymerases and is generally further processed by other enzymes. RNA is central to protein synthesis. DNA carries the genetic information of a cell and consists of thousands of genes. Each gene serves as a recipe on how to build a protein molecule. Proteins perform important tasks for the cell functions or serve as building blocks. The flow of information from the genes determines the protein composition and thereby the functions of the cell.

The DNA is situated in the nucleus of the cell, organized into chromosomes. Every cell must contain the genetic information and the DNA is therefore duplicated before a cell divides (replication). When proteins are needed, the corresponding genes are transcribed into RNA (transcription). The RNA is first processed so that non-coding parts are removed (processing) and is then transported out of the nucleus (transport). Outside the nucleus, the proteins are built based upon the code in the RNA (translation).

Our basic drug development concept is to block the expression of proteins that cause disease. RNA is essential in the process of creating proteins. We intend to develop drugs and drug delivery systems that work by delivering short strands of DNA material (antisense DNA) that are inserted into a cell to block the production of proteins associated with disease.

Antisense DNA therapeutics is the field of designing short DNA sequences that are complementary to an RNA for a protein of interest with the intention of inhibiting the production of the targeted protein. The DNA will find the matching RNA and form a complex. The complexed RNA will not have access to the protein-making machinery, which prevents the cell from translating it into a protein. Thus, protein production is turned off and levels of the targeted protein are reduced in the cell. This gene-specific process of controlling protein expression has led to great interest in using antisense DNA to shut off the production of proteins involved in disease. Antisense therapeutics have been in development for over 20 years; however, there have been many challenges to antisense therapeutics that have prevented or reduced the successful distribution and transfer of DNA into cells. Of all delivery methods in use today, we believe only DNAbilize™ has the potential to overcome the most common challenges associated with antisense therapeutics.

## **Overview of Drug Candidates and Delivery Technology**

### ***PREXIGEBERSEN***

Prexigebersen is targeted at the protein Grb2. Antisense inhibition of Grb2 interrupts the signals between mutated and activated receptors that connect to a well-known cancer associated switch called Ras protein. Inhibition of Grb2 does not cause cell death and thus does not result in adverse events typically observed with receptor inhibitors or Ras pathway inhibitors. We believe that prexigebersen has the potential to be an ideal combination for any number of cancer therapeutics where the Ras pathway is aberrantly activated and patient fitness is a major concern.

We have completed our Phase I clinical trials for prexigebersen for indications for AML, CML and MDS. We are currently prioritizing our efforts on AML and CML and have begun the Phase Ib/Phase II clinical trials for these indications. Priorities for additional indications, including MDS or ALL, are expected to be addressed in the future as the results of our Phase II and work in solid tumors progresses.

### *Indications for Acute Myeloid Leukemia (AML) and Chronic Myelogenous Leukemia (CML)*

*AML – Background and Common Treatments.* AML is the rapid accumulation of immature myeloid cells in the blood, resulting in a drop of the other cell types such as red blood cells and platelets. The expansion of immature monocytes leaves the patient unable to fight infection. If AML is left untreated, it usually results in death within three months. AML incidence increases with age, with more than 50% of the cases in people age 60 or older. AML is the most common acute leukemia in adults, and the National Cancer Institute estimates that approximately 20,000 new cases occur each year. The cure rate is between 5-15% in older adults, and those who cannot receive the standard course of chemotherapy have an average survival rate of five to ten months. The standard induction therapy for AML is cytarabine with anthracycline, which has not been improved upon for the last 20 years. The last drug approval for AML was in 1990. Of those patients who are able to receive the standard induction therapy, about 75% will likely relapse. AML is an area of high unmet need for both the relapsed and the de novo elderly population who are typically ineligible for induction therapy.

*CML – Background and Common Treatments.* CML is characterized by expansion in the blood and bone marrow of mature myeloid cells and their precursors. It can show no symptoms and is often detected during a routine blood test. If left untreated, after several years it will progress to an accelerated phase and eventually blast crisis where it becomes an acute leukemia. With the introduction of drugs such as Gleevec, the life expectancy of patients treated in the chronic phase has been significantly improved, and only 1-1.5% of patients ever go into blast crisis. However, for those patients who do progress into blast crisis, there are currently few treatment options. Myeloid cells in blast crisis have accumulated genetic abnormalities that resist traditional treatment methods that kill leukemic cells. Patients in blast crisis have an average survival rate of seven to eleven months. New treatments for this critical population are necessary.

*Prexigebersen Development and Treatment for AML and CML.* Our lead liposome delivered antisense drug candidate, prexigebersen, has been clinically tested in patients having AML, CML, MDS and ALL in a Phase I trial. During the Phase I trial, 80% of the evaluable patients had refractory or relapsed AML, having failed at least 6 prior therapies. In our study, 83% of patients showed decreased circulating blasts and anti-leukemic activity and eight patients stabilized for extended treatments.

#### *Phase I Clinical Trials*

The Phase I clinical trial was a dose-escalating study to determine the safety and tolerance of escalating doses of prexigebersen. The study determined an optimal biologically active dose for further development. The pharmacokinetics of prexigebersen in patients from the study are being evaluated. In addition, patient blood samples from the trial were tested using a new assay developed by us to measure down-regulation of the target protein, the critical scientific data that demonstrated the delivery technology does in fact successfully deliver the antisense drug substance to the cell and across the cell membrane into the interior of the cell where expression of the target protein is blocked. The clinical trial was conducted at MD Anderson.

The original IND granted by the U.S. Food and Drug Administration (FDA) in March 2010 allowed us to proceed with a Phase I clinical trial having five cohorts culminating in a maximum dose of 50 mg/m<sup>2</sup>. However, in November 2012, we announced that since there had been no evidence of significant toxicity from treatment of patients with prexigebersen, we requested the FDA to allow higher dosing in patients. The principal investigator for the clinical trial, in consultation with our management team, advised us that with the absence of any real toxicity barriers, we should continue to evaluate higher doses of prexigebersen. The absence of significant toxicity provided a significant opportunity for us to test higher doses in patients in order to find a dose that provides maximum potential benefit and duration of anti-leukemia effect. These actions were approved and a revised protocol was submitted allowing higher dosing. We announced in October 2014 that we completed Cohort 6, successfully treating three patients at a dose 90 mg/m<sup>2</sup>. There has been no evidence of significant toxicity from treatment of patients with prexigebersen in our Phase I clinical trial.

An important outcome for the Phase I clinical trial is the ability to assess for the first time the performance of our delivery technology platform in human patients. We have developed two new assays to be able to provide scientific proof of concept of the delivery technology. The first involves a novel detection method for the drug substance in blood samples that will be used to assess the pharmacokinetics of the drug. The second involves a method to measure down-regulation of the target protein in a patient blood sample that was achieved. The latter measurement will provide critical proof that DNAbilize™ neutral liposome delivery technology delivered the drug substance to the cell and was able to transport it across the cell membrane into the interior to block cellular production of the Grb2 protein.



In this regard, in August 2013 we announced that our DNAbilize™ liposomal delivery technology achieved a major milestone in the development of antisense therapeutics based on a scientific assay confirming that treating patients with our drug candidate prexigebersen inhibits the Grb2 disease-causing target protein in patients with blood cancers. Inhibition of the disease-causing protein has the effect of down regulating the disease. This will allow for prexigebersen to be used potentially in combination with current frontline treatments. This discovery also points to the potential use of a liposomal antisense treatment as a standalone treatment to transform and manage a disease that has a disease-causing protein as a chronic disorder. This accomplishment is a potentially significant breakthrough for antisense therapeutics, whose development, to date, as a class of therapeutics has been severely limited by a lack of a systemic delivery mechanism that can safely distribute the drug throughout the body and deliver the antisense drug substance across the cell membrane into the interior of the cell. Further, we expect that scientific proof of principle for DNAbilize™ may lead to licensing and business development opportunities, supporting our business model.

The principal investigator for the Phase I clinical trial is a leading expert in the treatment of CML, AML, MDS and ALL. Because the results of the first trial produced unexpected and clinically interesting results in some patients, the principal investigator prepared an abstract of the results of the first cohort that was accepted for presentation at the American Society of Hematology (ASH) annual meeting in December 2011. Results that demonstrated potential anti-leukemia benefits in treated patients were included in the presentation. Subsequently, in fall 2013 the principal investigator prepared an abstract of updated information on the results of the clinical trial through Cohort 5, which was accepted for presentation at the ASH annual meeting in December 2013. Highlights (which have been updated to include patients from Cohort 6) of the presentation prepared by the principal investigator for the meeting included:

#### *Data from the Phase I Clinical Trial*

- Among 20 evaluable patients, 15 demonstrated anti-leukemia activity with reduction in peripheral or bone marrow blasts from baseline.
- Five patients demonstrated transient improvement and/or stable disease, three of whom received a total of five cycles each.
- Two patients, in addition to achieving market blast percentage declines, also experienced transient improvements in leukemia cutis lesions.

#### *Disease Stabilization in MDS and AML*

- Two patients with MDS, a 53-year-old male and a 72-year-old female, both achieved disease stabilization and continued therapy for five cycles before disease progression.
- A 54-year-old HIV positive male with AML achieved stable disease and marked reduction in peripheral blasts, continuing therapy for five cycles before disease progression.

#### *Experience in CML-Blast Phase*

- Patient with myeloid blast crisis of CML.
- Prior therapies consisted of: imatinib, dasatinib, nilotinib, DCC-2036, cytarabine + fludarabine + dasatinib + gemtuzumab, PHA-739358, clofarabine + dasatinib.
- Upon start of prexigebersen, patient showed a significant reduction in white blood cell (WBC) blasts from 81 percent to 5 percent, but due to leptomeningeal disease progression discontinued therapy before full cycle.

#### *Inhibition of Target Grb2 Protein*

- Grb2 levels were compared to baseline prior to treatment.
- By end of treatment, prexigebersen decreased Grb2 in 10 out of 12 samples (83%) tested (average reduction 50%).
- Phosphorylated ERK (pERK, extracellular signal related kinase), a protein downstream of the Ras protein, was decreased in 58% of samples.

The Phase I clinical trial is typically ended when a maximum tolerated dose (MTD) is encountered. However, due to the lack of toxicity of the drug, a MTD was not observed. As a result, an optimal biological dose was determined and we completed Cohort 6 of our Phase I clinical trial. It is noted, however, that the lack of toxicity is a major advantage for the drug candidate prexigebersen since it allows higher levels of drug to be administered to the patient, increasing the potential therapeutic benefit.

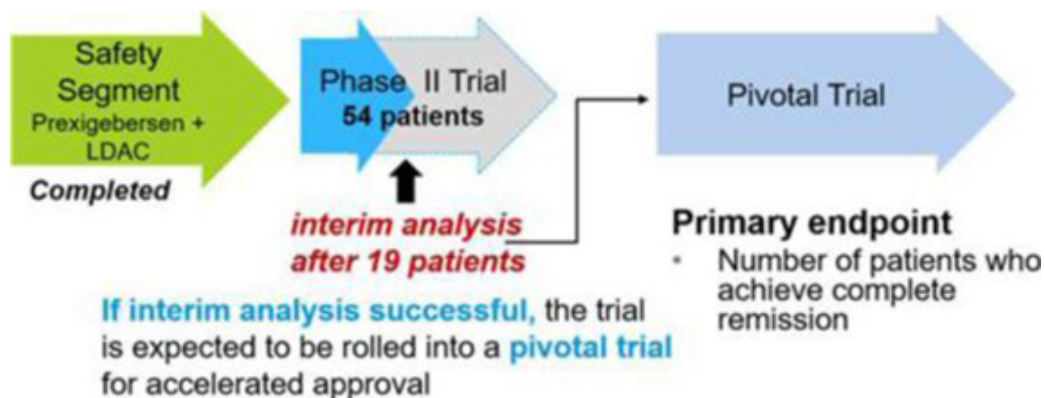
In April 2015, we received orphan drug designation by the FDA for prexigebersen in AML. Orphan drug status provides Bio-Path with seven years of exclusivity after receiving formal marketing approval, as well as additional development incentives. The FDA grants this designation to certain drugs that target diseases affecting fewer than 200,000 people in the United States. In October 2016, prexigebersen received orphan drug designation for AML in the European Union (“E.U.”) from the European Medicines Agency (“EMA”). To receive orphan drug designation from the EMA, a therapy must be intended for the treatment of a life-threatening or chronically debilitating rare condition with a prevalence of less than five in 10,000 in the E.U. Orphan drug designation provides incentives designed to facilitate development, including fee reductions for protocol assistance, scientific advice and importantly, may provide up to ten years of market exclusivity in the E.U. following product approval.

### Phase II Clinical Trials

On February 9, 2015, we announced that we began enrollment into the combination therapy Phase Ib clinical trial for prexigebersen in patients with AML. The combination therapy Phase Ib clinical trial consisted of two dosing cohorts of prexigebersen (60 mg/m<sup>2</sup> and 90 mg/m<sup>2</sup>) to test the safety profile of treating AML patients with prexigebersen in combination with LDAC. Patients ineligible for intensive induction therapy are currently treated only with LDAC.

On October 9, 2015, we announced the completion of Cohort 7, the first dosing cohort of the Phase Ib clinical trial, consisting of a 60 mg/m<sup>2</sup> dose of prexigebersen in combination with LDAC. On March 3, 2016, we announced the completion of Cohort 8, the second dosing cohort of the Phase Ib clinical trial, consisting of a 90 mg/m<sup>2</sup> dose of prexigebersen in combination with LDAC. On June 6, 2016, we announced that data from Cohort 7 and Cohort 8 of the Phase Ib clinical trial combination therapy of prexigebersen and LDAC showed no dose limiting toxicities. Of the six evaluable patients from the Phase Ib clinical trial, four patients completed more than two cycles of treatment, three patients achieved complete remission and two patients achieved partial remission. Pharmacokinetics of prexigebersen demonstrated a half-life at 60 mg/m<sup>2</sup> of 30 hours, significantly better than the 90 mg/m<sup>2</sup> dose. The final analysis of these data, along with the demonstrated reductions in bone marrow blasts, suggested that 60 mg/m<sup>2</sup> is the appropriate dose for use in the Phase II trial. Administratively, this required Bio-Path to substantially revise documents for the Phase II trial with the 60 mg/m<sup>2</sup> dose and resubmit for approvals with the FDA and site Institutional Review Boards, which delayed the commencement of the Phase II trial.

With the completion of Cohort 8, the Phase Ib trial has been completed. Results from the Phase Ib clinical trial demonstrated it is safe to add prexigebersen, which appears to yield better response rates in this AML patient population. On November 2, 2016, we announced that the first patient in the efficacy portion of the Phase II trial was dosed. The full trial design includes approximately 54 evaluable patients with an interim analysis to be performed after 19 patients are treated with the combination. In the event the interim results exceed the primary endpoint in the number of patients that meet or exceed statistically determined thresholds, we may seek to convert the trial into a registration trial for accelerated approval (see figure below). The multi-site trial is being conducted at leading cancer centers, among them are Weill Medical College of Cornell University, Baylor Scott & White Health, The University of Kansas Cancer Center, New Jersey Hematology Oncology Associates, West Virginia University Mary Babb Randolph Cancer Center, and MD Anderson.



Development of new therapeutics for AML and CML in blast crisis can meet currently unmet needs for patients who have very few treatment options due to age, fitness or treatment-resistance of advanced genetically unstable cells. Elderly patients unfit to receive a stem cell transplant or induction therapy face a likelihood of relapse to a more resistant leukemia for which current drug products are not effective. prexigebersen and DNAbilize™ technology offer new hope for achieving remission for fragile populations. We believe that the combination of prexigebersen with frontline chemotherapy can provide a way to treat cancer without added toxicity so that the patient can remain under treatment long enough to reach complete remission.

### *Indications for Triple Negative Breast Cancer (TNBC) and Inflammatory Breast Cancer (IBC)*

*TNBC and IBC – Background and Common Treatments.* Approximately 15 to 20 percent of breast cancers fall into the category of triple-negative. TNBC tumors do not express estrogen receptors, progesterone receptors, and low human epidermal growth factor receptor 2 (HER2). These negative results mean that the growth of the cancer is not supported by the hormones estrogen and progesterone, or by the presence of HER2 receptors. Therefore, TNBC does not respond to hormonal therapy or therapies that target HER2 receptors. In addition, TNBC tumors are very aggressive. IBC often presents as TNBC and is a rare and very aggressive disease in which cancer cells block lymph vessels in the skin of the breast. This type of breast cancer is called “inflammatory” because the breast often looks swollen and red, or “inflamed.” IBC accounts for 2 to 5% of all breast cancers. IBC tumors are very aggressive and are frequently hormone receptor negative, which means hormone therapies may not be effective. The five-year survival rate for IBC is approximately 40% versus approximately 87% for all breast cancers combined, making IBC a priority area for development of new treatments. The current treatment regimen includes radiation, chemotherapy and surgery. A lack of targeted treatments for these types of breast cancer has led to development of new therapeutics currently in clinical trials. Because of the aggressiveness of these cancers, a systemic treatment is needed. Prexigebersen represents a systemic treatment that targets an important pathway for TNBC and IBC cell growth and has potential to be integral for the treatment of these diseases.

*Prexigebersen Development and Treatment for TNBC and IBC.* In July 2013, we announced that we were initiating preclinical testing of prexigebersen for TNBC and IBC. Our plan is to develop prexigebersen as a targeted therapy against TNBC and IBC. Our treatment goals are two-pronged: the first is to develop prexigebersen as a tumor reduction agent in combination with other approved drugs in preoperative settings for TNBC and IBC patients, and the second is to develop prexigebersen as a drug to treat and control or eliminate cancer metastasis in TNBC and IBC patients. Both of these treatment goals address high need situations for patients. Once the preclinical studies are completed, we believe that the observations that we learned from the original Phase I trial will help us increase the speed of progress for such Phase I trial in TNBC and IBC, as the toxicity profile of prexigebersen is currently well-established.

### *Indications for Other Solid Tumors (e.g., Lymphoma, Colon, Thyroid, and Head and Neck Cancers)*

Cancers of colon, thyroid, head and neck, and lymphoma are solid tumors which utilize the same signaling pathway as TNBC and IBC, which involve the Grb2 protein. It has been proposed that prexigebersen may have clinical efficacy in these indications due to the overlapping similarity of the mechanisms of their growth and proliferation. As our program for prexigebersen continues to develop, it is anticipated that these indications will be assessed in preclinical research.

### **BP1002**

BP1002, also known by its scientific name as Liposomal Bcl2, is our second liposome delivered antisense drug candidate. BP1002 is intended to target the lymphoma and certain solid tumor markets. Clinical targets for BP1002 include lymphoma, breast cancer, colon cancer, prostate cancer and leukemia. We believe that BP1002 has the potential to treat 40%-60% of solid tumors.

Bcl2 is a protein that is involved in regulating apoptosis, or programmed cell death. Apoptosis is a physiologic mechanism of cell turnover by which cells actively commit suicide in response to aberrant external signals. Over-expression of Bcl2 prevents the induction of apoptosis in response to cellular insults such as treatment with chemotherapeutic agents. Bcl2 is over-expressed in more than 90% of follicular B-cell non-Hodgkin’s lymphoma due to a chromosomal rearrangement and is the key factor in the initiation of this malignancy. Bcl2 is also overexpressed in a wide variety of solid tumors (it is estimated to be over-expressed in 40% of cancers). For example, Bcl2 over-expression has been associated with the progression of prostate cancer from hormone dependence to hormone independence and may contribute to the relative drug resistant phenotype typically observed in hormone independent prostate cancer.

*Non-Hodgkin’s Lymphomas –Background and Common Treatments.* There are approximately 56,000 new cases of non-Hodgkin’s lymphoma (NHL) per year, with approximately 30% being follicular lymphoma (FL) and approximately 60% being the more aggressive diffuse large B cell lymphoma (DLBCL) type. A consensus on front-line treatment for FL has not been established as many factors are taken into account in the treatment approach (e.g., age, stage of disease, cell surface markers). Rituximab is a treatment of choice for the majority of lymphomas and is typically used in combination with other chemotherapy agents or as a maintenance treatment.

*BP1002 – Development and Treatment for FL, DLBCL, MALT, MCL AND BL.* On December 22, 2014, we announced that we initiated development of BP1002 as a treatment for FL. We intend to file a new IND to begin clinical testing of BP1002 in patients with multiple types of lymphoma in 2017. We anticipate that the Phase I trial will be open to refractory and relapsed patients with FL and other sub-types of NHL, including DLBCL, MALT, MCL and BL.

Treatments of varying efficacy exist for FL and DLBCL; however, due to the wide variety of subtypes of this disease, a frontline approach is lacking. Bcl2 is over-expressed in 85% of patients due to a translocation between chromosomes 18 and 14, a hallmark of the disease. Therapies that directly and specifically block or inhibit protein synthesis of Bcl2 could be transformative in this indication. Toxicity in competing therapeutics using small molecule inhibitors of Bcl2 occurs due to non-specificity of the inhibitors. Bcl2 is part of a large family of proteins and small molecule inhibitors developed against it typically bind to more than one member of the family. This leads to unexpected off-target adverse effects. A previous attempt at a Bcl2 antisense by Genta Inc. failed to show an improvement in remission or overall survival rates. This antisense was a phosphorothioate DNA with dose-limiting toxicity and it also did not have a lipid delivery mechanism to aid in prevention of clearance by the liver, reducing the levels of antisense reaching diseased cells. We believe that BP1002 overcomes the failures of previous attempts at inhibiting Bcl2 by specifically interrupting the protein expression of one protein and not a family of necessary proteins and does so without inherent toxicity. With BP1002, more drug substance can reach the circulating lymphocytes so that the cancer cells can be treated with a therapeutically relevant dose. We believe BP1002 provides a new tool for cancer treatment for not just lymphomas, but also many cancers for which Bcl2 expression is driving cell proliferation. The introduction of a new, non-toxic, and specific Bcl2 inhibitor could be a major advance in cancer therapeutics.

### ***DNABILIZE™***

DNabilize™ technology is available for out-licensing. We intend to apply our drug delivery technology template to new disease-causing protein targets as a means to develop new liposomal antisense drug candidates. A new product identification template was recently approved that defines a process of scientific, preclinical, commercial and intellectual property evaluation of potential new drug candidates for inclusion into our drug product development pipeline. A significant amount of capital is expected to be allocated to in-license promising protein targets that can be developed as new liposomal antisense drug candidates. As we expand, we will look at indications where a systemic delivery is needed and antisense can be used to slow, reverse or cure a disease, either alone or in combination with another drug.

We are interested in pursuing a wide-ranging, proactive licensing program to include co-development of specific liposomal antisense drug candidates, sub-licensing our delivery template for outside development of liposomal antisense drug candidates or out-licensing a partially-developed drug candidate for final development and marketing.

### **Company History and Available Information**

We were originally incorporated in May 2000 as a Utah corporation under the name Ogden Golf Co. Corporation, but terminated our retail golf store operations in December 2006. In February 2008, we completed a reverse merger with Bio-Path Subsidiary. The name of Ogden Golf Co. Corporation was changed to Bio-Path Holdings, Inc. and the directors and officers of Bio-Path Subsidiary became the directors and officers of Bio-Path Holdings, Inc. On March 10, 2014, our common stock ceased trading on the OTCQX and commenced trading on the NASDAQ Capital Market under the ticker symbol "BPTH." Effective December 31, 2014, we changed our state of incorporation from Utah to Delaware through a statutory conversion pursuant to the Utah Revised Business Corporation Act and the Delaware General Corporation Law. Our principal executive offices are located at 4710 Bellaire Boulevard, Suite 210, Bellaire, Texas 77401, and our telephone number is (832) 742-1357.

### **Recent Accounting Pronouncements**

See Note 2 to the Unaudited Consolidated Financial Statements for a discussion of the impact of a new accounting standards update on the Company's consolidated financial statements.

### **Financial Operations Overview**

#### ***Revenue***

We have not generated significant revenues to date. Our ability to generate revenues from our drug candidates, which we do not expect will occur for many years, if ever, will depend heavily on the successful development and eventual commercialization of our drug candidates.

During 2016, the Company entered into a fixed fee service agreement with a preclinical stage biotechnology company in connection with a development project involving our DNabilize™ technology, pursuant to which we agreed to perform certain evaluation services in exchange for \$50,000. As of June 30, 2017, the Company has recorded \$13,000 in revenue under the agreement. Payments received prior to the Company's performance of work are recorded as deferred revenue and recognized as revenue once the work is performed.

In the future, we may generate revenue from a combination of product sales, third-party grants, service agreements, strategic alliances and licensing arrangements. We expect that any revenue we may generate will fluctuate due to the timing and amount of services performed, milestones achieved, license fees earned and payments received upon the eventual sales of our drug candidates, in the event any are successfully commercialized. If we fail to complete the development of any of our drug candidates or obtain regulatory approval for them, our ability to generate future revenue will be adversely affected.

### ***Research and development expenses***

Research and development expenses consist of costs associated with our research activities, including the development of our drug candidates. Our research and development expenses consist of:

- expenses related to research and development personnel, including salaries and benefits, travel and stock-based compensation;
- external research and development expenses incurred under arrangements with third parties, such as contract research organizations, clinical investigative sites, laboratories, manufacturing organizations and consultants;
- license fees, including maintenance fees and patent expense paid to MD Anderson in connection with the License Agreement; and
- costs of materials used during research and development activities.

Costs and expenses that can be clearly identified as research and development are charged to expense as incurred in accordance with generally accepted accounting policies (“GAAP”). Advance payments, including nonrefundable amounts, for goods or services that will be used or rendered for future research and development activities are deferred and capitalized. Such amounts will be recognized as an expense as the related goods are delivered or the related services are performed. If the goods will not be delivered, or services will not be rendered, then the capitalized advance payment is charged to expense.

We expect research and development expenses associated with the completion of the associated clinical trials to be substantial and to increase over time. The successful development of our drug candidates is highly uncertain. At this time, we cannot reasonably estimate or know the nature, timing and estimated costs of the efforts that will be necessary to complete development of our drug candidates or the period, if any, in which material net cash inflows from our drug candidates may commence. This is due to the numerous risks and uncertainties associated with developing drugs, including the uncertainty of:

- the rate of progress, results and costs of completion of ongoing clinical trials of our drug candidates;
- the size, scope, rate of progress, results and costs of completion of any potential future clinical trials and preclinical trials of our drug candidates that we may initiate;
- competing technological and market developments;
- the performance of third-party manufacturers and suppliers;
- the ability of our drug candidates, if they receive regulatory approval, to achieve market success; and
- disputes or other developments relating to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our drug candidates.

A change in the outcome of any of these variables with respect to the development of a drug candidate could mean a significant change in the costs and timing associated with the development of that drug candidate. For example, if the FDA or other regulatory authority were to require us to conduct clinical trials beyond those which we currently anticipate will be required for the completion of clinical development of a drug candidate or if we experience significant delays in enrollment in any clinical trials, we could be required to expend significant additional financial resources and time on the completion of clinical development.

### **General and administrative expenses**

Our general and administrative expenses consist primarily of salaries and benefits for management and administrative personnel, professional fees for legal, accounting and other services, travel costs and facility-related costs such as rent, utilities and other general office expenses.

### **Results of Operations**

#### **Comparisons of the Three Months Ended June 30, 2017 to the Three Months Ended June 30, 2016**

*Research and Development Expense.* Our research and development expense for the three months ended June 30, 2017 was \$1.5 million, an increase of \$0.3 million compared to the three months ended June 30, 2016. The increase in research and development expense was primarily due to increased clinical trial expenses for our Phase II clinical trial for prexigebersen in AML. The following table sets forth our research and development expenses (in thousands):

	<b>Three Months Ended June 30,</b>	
	<b>2017</b>	<b>2016</b>
Research and development expense	\$ 1,351	\$ 1,092
Non-cash stock-based compensation expense	129	95
<b>Total research and development expense</b>	<b>\$ 1,480</b>	<b>\$ 1,187</b>

*General and Administrative Expense.* Our general and administrative expense for both the three months ended June 30, 2017 and June 30, 2016 was \$0.8 million. The following table sets forth our general and administrative expenses (in thousands):

	<b>Three Months Ended June 30,</b>	
	<b>2017</b>	<b>2016</b>
General and administrative expense	\$ 716	\$ 629
Non-cash stock-based compensation expense	129	128
<b>Total general and administrative expense</b>	<b>\$ 845</b>	<b>\$ 757</b>

*Net Operating Loss.* Our net loss from operations was \$2.3 million for the three months ended June 30, 2017, an increase of \$0.4 million compared to the three months ended June 30, 2016.

*Change in Fair Value of Warrant Liability.* The change in fair value of the warranty liability for the three months ended June 30, 2017 resulted in non-cash income of \$0.8 million.

*Loss on Extinguishment of Warrant Liability.* The loss on extinguishment of the warranty liability for the three months ended June 30, 2017 resulted in a non-cash loss of \$0.4 million.

*Net Loss.* Our net loss for the three months ended June 30, 2017 was \$2.0 million, an increase of \$0.1 compared to the three months ended June 30, 2016.

*Deemed Dividend Related to Warrant Conversion.* The deemed dividend related to the warrant conversion was \$1.0 million for the three months ended June 30, 2017. The Company did not have a deemed dividend for the comparable period in 2016.

*Net Loss Attributable to Common Stockholders.* Our net loss attributable to common stockholders for the three months ended June 30, 2017 was \$3.0 million, an increase of \$1.1 million compared to the three months ended June 30, 2016.

*Net Loss per Share.* Net loss per share, both basic and diluted, was \$0.03 per share for the three months ended June 30, 2017 compared to \$0.02 per share for the three months ended June 30, 2016. Net loss per share is calculated using the weighted average number of shares of common stock outstanding during the applicable periods and excludes stock options and warrants because they are antidilutive.

### Comparisons of the Six Months Ended June 30, 2017 to the Six Months Ended June 30, 2016

*Research and Development Expense.* Our research and development expense for the six months ended June 30, 2017 was \$2.5 million, an increase of \$0.3 million compared to the six months ended June 30, 2016. The increase in research and development expense was primarily due to increased clinical trial expenses for our Phase II clinical trial for prexigebersen in AML. The following table sets forth our research and development expenses (in thousands):

	Six Months Ended June 30,	
	2017	2016
Research and development expense	\$ 2,256	\$ 2,070
Non-cash stock-based compensation expense	250	137
Total research and development expense	<u>\$ 2,506</u>	<u>\$ 2,207</u>

*General and Administrative Expense.* Our general and administrative expense for the six months ended June 30, 2017 was \$1.8 million, an increase of \$0.2 million compared to the six months ended June 30, 2016. The increase in general and administrative expense was primarily due to increased stock-based compensation expense and director fees. The following table sets forth our general and administrative expenses (in thousands):

	Six Months Ended June 30,	
	2017	2016
General and administrative expense	\$ 1,558	\$ 1,425
Non-cash stock-based compensation expense	257	181
Total general and administrative expense	<u>\$ 1,815</u>	<u>\$ 1,606</u>

*Net Operating Loss.* Our net loss from operations was \$4.3 million for the six months ended June 30, 2017 an increase of \$0.5 million compared to the six months ended June 30, 2016.

*Change in Fair Value of Warrant Liability.* The change in fair value of the warranty liability for the six months ended June 30, 2017 resulted in non-cash income of \$2.4 million.

*Loss on Extinguishment of Warrant Liability.* The loss on extinguishment of the warranty liability for the six months ended June 30, 2017 resulted in a non-cash loss of \$0.4 million.

*Net Loss.* Our net loss for the six months ended June 30, 2017 was \$2.4 million, a decrease of \$1.4 million compared to the six months ended June 30, 2016.

*Deemed Dividend Related to Warrant Conversion.* The deemed dividend related to the warrant conversion was \$1.0 million for the six months ended June 30, 2017. The Company did not have a deemed dividend for the comparable period in 2016.

*Net Loss Attributable to Common Stockholders.* Our net loss attributable to common stockholders for the six months ended June 30, 2017 was \$3.4 million, a decrease of \$0.4 million compared to the six months ended June 30, 2016.

*Net Loss per Share.* Net loss per share, both basic and diluted, was \$0.04 per share for both the six months ended June 30, 2017 and June 30, 2016. Net loss per share is calculated using the weighted average number of shares of common stock outstanding during the applicable periods and excludes stock options and warrants because they are antidilutive.

## Liquidity and Capital Resources

### *Overview*

We have not generated significant revenues to date. Since our inception, we have funded our operations primarily through public and private offerings of our capital stock and other securities. We expect to finance our foreseeable cash requirements through cash on hand, cash from operations, debt financings and public or private equity offerings. Additionally, we may seek collaborations and license arrangements for our drug candidates. We may seek to access the public or private equity markets whenever conditions are favorable. We currently have no lines of credit or other arranged access to debt financing.

We had a cash balance of \$6.2 million as of June 30, 2017 compared to a cash balance of \$9.4 million as of December 31, 2016. We believe that our available cash at June 30, 2017 will be sufficient to fund our liquidity and capital expenditure requirements for at least the next 12 months. To ensure that the Company maintains an adequate cash level, management can reduce spending on its day-to-day operations, sell laboratory assets and temporarily delay planned activities if needed.

### *Cash Flows*

*Operating Activities.* Net cash used in operating activities for the six months ended June 30, 2017 was \$4.2 million. Net cash used in operating activities consisted primarily of the net loss for the period of \$2.4 million, an increase in current assets of \$0.3 million and a decrease in current liabilities of \$0.3 million. Our net cash used in operating activities is partially offset by non-cash stock-based compensation expense of \$0.5 million and technology license amortization and depreciation expenses of \$0.2 million. The change in fair value of the warranty liability of \$2.4 million partially offset by loss on extinguishment of the warranty liability of \$0.4 million did not have an impact on net cash used in operating activities during the period.

*Investing Activities.* Net cash used in investing activities for the six months ended June 30, 2017 consisted of capital expenditures totaling \$0.5 million which were primarily related to equipment purchases for our new research and development laboratory.

*Financing Activities.* Net cash provided by financing activities for the six months ended June 30, 2017 consisted of \$1.5 million from the warrant exercises described below, which closed in May 2017.

### *2017 Shelf Registration Statement*

On December 20, 2016, we filed a shelf registration on Form S-3 with the SEC, which was declared effective by the SEC on January 9, 2017 (the "2017 Shelf Registration Statement"), at which time the offering of unsold securities under a previous shelf registration statement on Form S-3 filed with the SEC, which was declared effective by the SEC on January 13, 2014 (the "2014 Shelf Registration Statement"), was deemed terminated pursuant to Rule 415(a)(6) under the Securities Act. The 2017 Registration Statement was filed to register the offering, issuance and sale of (i) up to \$125.0 million of our common stock, preferred stock, warrants to purchase common stock or preferred stock or any combination thereof, either individually or in units, including offers and sales of our common stock under the Controlled Equity Offering<sup>SM</sup> Sales Agreement (the "Sales Agreement") with Cantor Fitzgerald & Co. ("Cantor Fitzgerald") described below and (ii) up to 5,441,176 shares of our common stock pursuant to the exercise of warrants that were issued in prior registered direct offerings, including the 2016 Registered Direct Offering described below. The foregoing does not constitute an offer to sell or the solicitation of an offer to buy securities, and shall not constitute an offer, solicitation or sale in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of that jurisdiction.

### *"At the Market" Offering*

On June 24, 2015, we entered into the Sales Agreement with Cantor Fitzgerald, as sales agent, pursuant to which we may offer and sell, from time to time, through Cantor Fitzgerald shares of our common stock. Sales of shares of common stock under the Sales Agreement will be made pursuant to the 2017 Shelf Registration Statement and a related prospectus filed with the SEC on January 10, 2017, for an aggregate offering price of up to \$25.0 million. Under the Sales Agreement, Cantor Fitzgerald may sell shares by any method deemed to be an "at the market" offering as defined in Rule 415 under the Securities Act. We will pay Cantor Fitzgerald a commission of 3.4% of the aggregate gross proceeds from each sale of shares under the Sales Agreement and have agreed to provide Cantor Fitzgerald with customary indemnification and contribution rights. We have also agreed to reimburse Cantor Fitzgerald for certain specified expenses. Pursuant to the Securities Purchase Agreement described below, we are subject to certain restrictions on our ability to offer and sell shares of our common stock under the Sales Agreement. To date, we have not offered or sold any shares of common stock under the Sales Agreement.



### ***2016 Registered Direct Offering***

On June 29, 2016, we entered into a securities purchase agreement (the “Securities Purchase Agreement”) with certain healthcare focused institutional investors pursuant to which we agreed to sell an aggregate of 5,882,352 shares of our common stock and warrants to purchase up to 2,941,176 shares of our common stock for gross proceeds of approximately \$10.0 million under the 2014 Registration Statement (the “2016 Registered Direct Offering”). The 2016 Registered Direct Offering closed on July 5, 2016. The net proceeds to the Company from the 2016 Registered Direct Offering, after deducting the placement agent’s fees and expenses and our offering expenses, and excluding the proceeds, if any, from the exercise of the warrants issued in the offering, were approximately \$9.3 million. For more information, see Note 1 to the consolidated financial statements included herein.

### ***Warrant Exercises***

On May 21, 2017, the Company entered into Warrant Exercise Agreements (the “Exercise Agreements”) with certain holders (the “Exercising Holders”) of the 2016 Warrants and warrants (the “2014 Warrants,” and together with the 2016 Warrants, the “Original Warrants”) to purchase up to 2,500,000 shares of common stock that we issued in January 2014. The Exercising Holders owned, in the aggregate, Original Warrants exercisable for 4,411,764 shares of our common stock. Pursuant to the Exercise Agreements, the Exercising Holders and the Company agreed that the Exercising Holders would exercise their Original Warrants with respect to 4,300,000 shares of our common stock underlying such Original Warrants for a reduced exercise price equal to \$0.38 per share (the “Reduced Exercise Price”). The Exercising Holders also subsequently exercised their Original Warrants for the remaining 111,764 shares of our common stock underlying such Original Warrants for the Reduced Exercise Price. In connection with the execution of the Exercise Agreements, we issued to each Exercising Holder a new warrant (each, a “New Warrant”) to purchase shares of our common stock equal to the number of shares of our common stock received by such Exercising Holder upon exercise of such Exercising Holder’s Original Warrants. The terms of the New Warrants are substantially similar to the terms of the Original Warrants, except that the New Warrants (i) became exercisable immediately upon issuance for a period of five years from the closing date of the Exercise Agreements; (ii) have an exercise price equal to \$0.60 per share and (iii) included revised language substantially similar to the language in the Warrant Amendments described above regarding fundamental transactions and net cash settlement. The net proceeds to the Company from the exercise of the New Warrants by the Exercising Holders, after deducting financial advisory fees and expenses and our offering expenses, were approximately \$1.5 million.

### ***Future Capital Requirements***

We expect to continue to incur significant operating expenses in connection with our ongoing activities, including conducting clinical trials, manufacturing and seeking regulatory approval of our drug candidates, prexigebersen and BP1002. Accordingly, we will continue to require substantial additional capital to fund our projected operating requirements. Such additional capital may not be available when needed or on terms favorable to us. In addition, we may seek additional capital due to favorable market conditions or strategic considerations, even if we believe we have sufficient funds for our current and future operating plan. There can be no assurance that we will be able to continue to raise additional capital through the sale of our securities in the future. Our future capital requirements may change and will depend on numerous factors, which are discussed in detail in “Item 1A. Risk Factors” to Part I of our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016. For more information, see Note 1 to the consolidated financial statements included herein.

### ***Off-Balance Sheet Arrangements***

As of June 30, 2017, we did not have any material off-balance sheet arrangements.

### ***Critical Accounting Policies***

The preparation of financial statements in conformity with GAAP in the United States has required the management of the Company to make assumptions, estimates and judgments that affect the amounts reported in the financial statements, including the notes thereto, and related disclosures of commitments and contingencies, if any. We consider our critical accounting policies to be those that require the more significant judgments and estimates in the preparation of financial statements. Our significant accounting policies are discussed in Note 2 to our consolidated financial statements included in our Annual Report on Form 10-K as of the year ended December 31, 2016.

### **ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

Not applicable.

### **ITEM 4. CONTROLS AND PROCEDURES**

#### **Evaluation of Disclosure Controls and Procedures**

It is management's responsibility to establish and maintain adequate disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act. Disclosure controls and procedures are controls and other procedures of a company that are designed to ensure that information required to be disclosed by the company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to management, including the company's principal executive and principal financial officers, as appropriate, to allow timely decisions regarding required disclosure.

Our management, including our Chief Executive Officer (who is also our Chief Financial Officer), has reviewed and evaluated the effectiveness of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, as of the end of the period covered by this Quarterly Report on Form 10-Q. Following this review and evaluation, our management determined that as of the end of the period covered by this Quarterly Report on Form 10-Q, our disclosure controls and procedures are effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms, and is accumulated and communicated to management, including our Chief Executive Officer and our Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

#### **Changes in Internal Control over Financial Reporting**

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

## PART II - OTHER INFORMATION

### ITEM 1. LEGAL PROCEEDINGS

None.

### ITEM 1A. RISK FACTORS

There were no material changes from the risk factors previously disclosed under “Item 1A. Risk Factors” to Part I of our Annual Report on Form 10-K as of the fiscal year ended December 31, 2016.

### ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

None.

### ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

### ITEM 4. MINE SAFETY DISCLOSURES

None.

### ITEM 5. OTHER INFORMATION

As previously reported, the Company’s board of directors approved a bylaw amendment in our First Amended and Restated Bylaws to change the advance notice period for nominations by stockholders of directors for election at an annual meeting of stockholders from not less than twenty (20) days nor more than forty (40) days prior to the first anniversary of the immediately preceding year’s annual meeting date to not less than sixty (60) days nor more than ninety (90) days prior to the first anniversary of the immediately preceding year’s annual meeting date. Accordingly, nominations by stockholders of directors for election at the 2017 annual meeting of stockholders must be received no later than October 16, 2017 and no earlier than September 16, 2017.

### ITEM 6. EXHIBITS

<b>Exhibit No.</b>	<b>Description of Exhibit</b>
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2.1	Agreement and Plan of Merger and Reorganization dated September 27, 2007, by and among the Company, Biopath Acquisition Corp., a Utah corporation and wholly owned subsidiary of the registrant, and Bio-Path, Inc., a Utah corporation (incorporated by reference to Exhibit 2.1 to the Company’s Current Report on Form 8-K filed on September 27, 2007).
3.1	Certificate of Incorporation (incorporated by reference to Exhibit 3.3 to the Company’s Current Report on Form 8-K filed on January 6, 2015).
3.2	First Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to the Company’s Current Report on Form 8-K filed on June 7, 2017).
4.1	Form of New Warrant (incorporated by reference to Exhibit 4.1 to the Company’s Current Report on Form 8-K filed on May 22, 2017).
4.2	Form of Warrant Amendment (incorporated by reference to Exhibit 4.1 to the Company’s Current Report on Form 8-K filed on June 19, 2017).
10.1	Form of Warrant Exercise Agreement (incorporated by reference to Exhibit 10.1 to the Company’s Current Report on Form 8-K filed on May 22, 2017).
31*	Certification of Principal Executive Officer and Principal Financial Officer pursuant to Exchange Act Rules 13a-14 and 15d-14, as adopted pursuant to Section 302 Sarbanes Oxley Act of 2002.
32*	Certification of Principal Executive Officer and Principal Financial Officer pursuant to Section 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 Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document

\* Filed herewith.

**SIGNATURE**

In accordance with the requirements of the Exchange Act, the Company has caused this Quarterly Report on Form 10-Q to be signed on its behalf by the undersigned thereunto duly authorized.

Dated: August 9, 2017

BIO-PATH HOLDINGS, INC.

By /s/ Peter H. Nielsen  
Peter H. Nielsen  
President  
Chief Executive Officer  
(Principal Executive Officer)  
Chief Financial Officer  
(Principal Financial Officer)

## EXHIBIT INDEX

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\* Filed herewith.

**CERTIFICATION OF  
PRINCIPAL EXECUTIVE OFFICER AND  
PRINCIPAL FINANCIAL OFFICER**

I, Peter H. Nielsen, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Bio-Path Holdings, 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. I am 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 my supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to me by others within those entities, particularly during the period in which this report is being prepared; and
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under my 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. I have disclosed, based on my 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:
  - 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: August 9, 2017

By: /s/ Peter H. Nielsen  
Peter H. Nielsen  
Chief Executive Officer  
(Principal Executive Officer)  
Chief Financial Officer  
(Principal Financial Officer)

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

In connection with the Quarterly Report on Form 10-Q of Bio-Path Holdings, Inc. (the "Company") for the quarter ended June 30, 2017 as filed with the Securities and Exchange Commission (the "Report"), I, Peter H. Nielsen, Chief Executive Officer and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

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

Date: August 9, 2017

By: /s/ Peter H. Nielsen  
Peter H. Nielsen  
Chief Executive Officer  
Chief Financial Officer

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