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

FORM 10-Q

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

For the quarterly period ended September 30, 2016.

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

For the transition period from _____ to _____

Commission file number: 001-37625

Voyager Therapeutics, Inc.
(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

75 Sidney Street,
Cambridge, Massachusetts
(Address of principal executive offices)

46-3003182
(I.R.S. Employer
Identification No.)

02139
(Zip Code)

(857) 259-5340
(Registrant's telephone number, including area code)

Not Applicable
(Former name, former address and former fiscal year, if changed since last report)

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, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

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

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

The number of outstanding shares of the registrant's common stock, par value \$0.001 per share, as of November 7, 2016 was 26,720,082.

Forward-Looking Statements

This Quarterly Report on Form 10-Q contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this Quarterly Report on Form 10-Q, including statements regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans, objectives of management and expected market growth, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

The words “anticipate,” “believe,” “estimate,” “expect,” “intend,” “may,” “plan,” “predict,” “project,” “target,” “potential,” “will,” “would,” “could,” “should,” “continue,” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, among other things, statements about:

- our ability to continue to advance VY-AADC01 through the current Phase 1b clinical trial as a treatment for advanced Parkinson’s disease and establish human proof-of-concept in early December 2016;
- the accuracy of our estimates regarding expenses, future revenues and capital requirements;
- our ability to continue to develop our product engine;
- our ability to develop a manufacturing capability compliant with current good manufacturing practices for our product candidates;
- our ability to advance our other programs through preclinical development and into clinical trials, including filing of an Investigational New Drug application for our ALS program in late 2017, and successfully complete such clinical trials;
- regulatory developments, including those in the United States and the European Union;
- our ability to obtain and maintain intellectual property protection for our proprietary assets;
- the size of the potential markets for our product candidates and our ability to serve those markets;
- the rate and degree of market acceptance of our product candidates for any indication once approved;
- our ability to obtain additional financing when needed; and
- the success of competing products that are or become available for the indications that we are pursuing.

These forward-looking statements are only predictions and we may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, so you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our business, financial condition and operating results. We have included important factors in the cautionary statements included in this Quarterly Report on Form 10-Q, particularly in Part II, Item 1A. Risk Factors that could cause actual future results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make.

You should read this Quarterly Report on Form 10-Q and the documents that we have filed as exhibits to the Quarterly Report on Form 10-Q with the understanding that our actual future results may be materially different from what we expect. We do not assume any obligation to update any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.

VOYAGER THERAPEUTICS

FORM 10-Q

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PART I. FINANCIAL INFORMATION

Voyager Therapeutics, Inc.
Condensed Consolidated Balance Sheets
(amounts in thousands, except share and per share data)
(unaudited)

	<u>September 30,</u> <u>2016</u>	<u>December 31,</u> <u>2015</u>
Assets		
Current assets:		
Cash and cash equivalents	\$ 63,507	\$ 31,309
Marketable securities, current	127,646	163,028
Prepaid expenses and other current assets	1,868	1,557
Total current assets	193,021	195,894
Property and equipment, net	4,253	3,234
Deposits and other non-current assets	2,294	321
Marketable securities, non-current	2,416	30,008
Total assets	<u>\$ 201,984</u>	<u>\$ 229,457</u>
Liabilities and stockholders' equity		
Current liabilities:		
Accounts payable	\$ 787	\$ 612
Accrued expenses	6,304	3,430
Deferred rent, current portion	—	300
Deferred revenue, current portion	12,296	19,589
Total current liabilities	19,387	23,931
Deferred rent, net of current portion	1,988	1,015
Deferred revenue, net of current portion	31,456	35,393
Other non-current liabilities	29	44
Total liabilities	52,860	60,383
Commitments and contingencies (see note 6)		
Stockholders' equity:		
Preferred stock \$0.001 par value: 5,000,000 shares authorized at September 30, 2016 and December 31, 2015; no shares issued and outstanding at September 30, 2016 and December 31, 2015	—	—
Common stock, \$0.001 par value: 120,000,000 shares authorized at September 30, 2016 and December 31, 2015; 25,419,245 and 24,930,979 shares issued and outstanding at September 30, 2016 and December 31, 2015, respectively	25	25
Additional paid-in capital	223,811	219,122
Accumulated other comprehensive income (loss)	630	(251)
Accumulated deficit	(75,342)	(49,822)
Total stockholders' equity	149,124	169,074
Total liabilities and stockholders' equity	<u>\$ 201,984</u>	<u>\$ 229,457</u>

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

Voyager Therapeutics, Inc.
Condensed Consolidated Statements of Operations and Comprehensive Loss
(amounts in thousands, except share and per share data)
(unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Collaboration revenue	\$ 3,308	\$ 4,937	\$ 11,858	\$ 12,397
Operating expenses:				
Research and development	10,309	6,481	29,526	18,459
General and administrative	3,370	2,475	9,789	6,752
Total operating expenses	<u>13,679</u>	<u>8,956</u>	<u>39,315</u>	<u>25,211</u>
Operating loss	(10,371)	(4,019)	(27,457)	(12,814)
Other income (expense)				
Interest income	1,171	102	2,069	175
Other expense, net	(99)	—	(435)	(9,750)
Total other income (expense)	<u>1,072</u>	<u>102</u>	<u>1,634</u>	<u>(9,575)</u>
Loss before income taxes	<u>(9,299)</u>	<u>(3,917)</u>	<u>(25,823)</u>	<u>(22,389)</u>
Income tax benefit	303	—	303	—
Net loss	<u>\$ (8,996)</u>	<u>\$ (3,917)</u>	<u>\$ (25,520)</u>	<u>\$ (22,389)</u>
Other comprehensive income				
Net unrealized gain on available-for-sale-securities, net of tax expense of \$570 for the three and nine months ended September 30, 2016	570	58	881	38
Total other comprehensive income	<u>570</u>	<u>58</u>	<u>881</u>	<u>38</u>
Comprehensive loss	<u>\$ (8,426)</u>	<u>\$ (3,859)</u>	<u>\$ (24,639)</u>	<u>\$ (22,351)</u>
Reconciliation of net loss to net loss attributable to common stockholders:				
Loss before income taxes	\$ (8,996)	\$ (3,917)	\$ (25,520)	\$ (22,389)
Accretion of redeemable convertible preferred stock to redemption value	—	(2,594)	—	(6,045)
Accrued dividends on series A preferred stock	—	(403)	—	(1,039)
Net loss attributable to common stockholders	<u>\$ (8,996)</u>	<u>\$ (6,914)</u>	<u>\$ (25,520)</u>	<u>\$ (29,473)</u>
Net loss per share attributable to common stockholders, basic and diluted	<u>\$ (0.35)</u>	<u>\$ (5.25)</u>	<u>\$ (1.01)</u>	<u>\$ (25.36)</u>
Weighted-average common shares outstanding, basic and diluted	<u>25,374,381</u>	<u>1,317,150</u>	<u>25,227,058</u>	<u>1,161,982</u>

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

Voyager Therapeutics, Inc.
Condensed Consolidated Statements of Cash Flows
(amounts in thousands)
(unaudited)

	Nine Months Ended	
	September 30,	
	2016	2015
Cash flow from operating activities		
Net loss	\$ (25,520)	\$ (22,389)
Adjustments to reconcile net loss to net cash (used in) provided by operating activities:		
Stock-based compensation expense	4,528	2,061
Depreciation	448	436
Amortization of premiums and discounts on marketable securities	571	261
Change in fair value of preferred stock tranche liability	—	9,750
In-kind research and development expenses	989	2,190
Other non-cash items	(409)	(205)
Changes in operating assets and liabilities:		
Prepaid expenses and other current assets	(311)	243
Other non-current assets	57	14
Deferred revenue	(12,219)	57,604
Accounts payable	175	(1,013)
Accrued expenses	2,301	1,952
Other non-current liabilities	—	(186)
Lease incentive benefit	—	138
Net cash (used in) provided by operating activities	<u>(29,390)</u>	<u>50,856</u>
Cash flow from investing activities		
Purchases of property and equipment	(1,160)	(909)
Change in restricted cash	(471)	—
Purchases of marketable securities and warrants	(66,627)	(100,283)
Proceeds from maturities of marketable securities	129,700	6,000
Net cash provided by (used in) investing activities	<u>61,442</u>	<u>(95,192)</u>
Cash flow from financing activities		
Proceeds from the issuance of redeemable convertible preferred stock net of discount and issuance costs	—	104,779
Deferred initial public offering costs	—	(954)
Proceeds from the exercise of stock options and issuance of restricted stock	146	9
Net cash provided by financing activities	<u>146</u>	<u>103,834</u>
Net increase in cash and cash equivalents	32,198	59,498
Cash and cash equivalents, beginning of period	31,309	7,035
Cash and cash equivalents, end of period	<u>\$ 63,507</u>	<u>\$ 66,533</u>
Supplemental disclosure of cash and non-cash activities		
Accretion of redeemable convertible preferred stock to redemption value	\$ —	\$ 6,045
Deferred initial public offering costs included in accrued expenses	\$ —	\$ 348

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

VOYAGER THERAPEUTICS INC.

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

1. Nature of business

Voyager Therapeutics, Inc. (“the Company”) is a clinical-stage gene therapy company focused on developing life-changing treatments for patients suffering from severe diseases of the central nervous system (the “CNS”). The Company focuses on CNS diseases where it believes that an adeno-associated virus (“AAV”) gene therapy approach can have a clinically meaningful impact by either increasing or decreasing the production of a specific protein. The Company has created a product engine that enables it to engineer, optimize, manufacture, and deliver its AAV-based gene therapies that have the potential to provide durable efficacy following a single administration directly to the CNS. The Company’s product engine has rapidly generated six programs for CNS indications, including advanced Parkinson’s disease, a form of monogenic amyotrophic lateral sclerosis, Friedreich’s ataxia, Huntington’s disease, frontotemporal dementia / Alzheimer’s disease, and severe, chronic pain. The Company’s most advanced clinical candidate, VY-AADC01, is being evaluated for the treatment of advanced Parkinson’s disease in an open-label, Phase 1b clinical trial with the goal of generating human proof-of-concept data in early December 2016.

The Company is subject to risks common to companies in the biotechnology and gene therapy industry, including but not limited to, risks of failure of pre-clinical studies and clinical trials, the need to obtain adequate additional funding, the need to obtain marketing approval for its drug product candidates, the need to successfully commercialize and gain market acceptance of its drug product candidates, dependence on key personnel, protection of proprietary technology, compliance with government regulations, development by competitors of technological innovations, ability to transition from pilot-scale manufacturing to large-scale production of products, and reliance on external sources for financing. If the Company does not successfully commercialize any of its products, it will be unable to generate product revenue or achieve profitability.

In February 2015, the Company entered into an agreement with Genzyme (“Collaboration Agreement”), which included a non-refundable upfront payment of \$65.0 million. In addition, contemporaneous with entering into the Collaboration Agreement, Genzyme entered into a Series B Stock Purchase Agreement, under which Genzyme purchased 10,000,000 shares of Series B Preferred Stock for \$30.0 million.

Through September 30, 2016, the Company had raised approximately \$278.0 million of proceeds from sales of convertible preferred stock and common stock, including its initial public offering, and proceeds from the Collaboration Agreement. The Company believes that its cash, cash equivalents, and marketable debt securities of \$191.2 million as of September 30, 2016 is sufficient to fund its current operating plan into 2019. There can be no assurance, however, that the current operating plan will be achieved in the timeframe anticipated by the Company, or that its cash resources will fund the Company’s operating plan for the period anticipated by the Company, or if the Company needs additional funding that such funding will be available on terms acceptable to the Company, or at all.

2. Summary of significant accounting policies and basis of presentation

Basis of Presentation

The accompanying unaudited condensed consolidated financial statements of the Company have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”) for interim financial reporting and as required by Regulation S-X, Rule 10-01. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. For further information, refer to the consolidated financial statements and footnotes included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2015 as filed with the Securities and Exchange Commission (“SEC”). These interim condensed consolidated financial statements, in the opinion of management, reflect all normal recurring adjustments necessary for a fair presentation of the Company’s financial position and results of operations for the periods presented. Any reference in these notes to applicable guidance is meant to refer to the authoritative United States generally accepted accounting

principles as found in the Accounting Standards Codification (“ASC”) and Accounting Standards Updates (“ASU”) of the Financial Accounting Standards Board (“FASB”).

The accompanying condensed consolidated financial statements include those of the Company and its wholly owned subsidiary, Voyager Securities Corporation, after elimination of all intercompany accounts and transactions.

In November 2015, the Company completed the sale of 5,750,000 shares of its common stock in its initial public offering (the “IPO”), at a price to the public of \$14.00 per share, resulting in net proceeds to the Company of \$72.9 million after deducting underwriting discounts, commissions, and offering expenses paid by the Company. On October 29, 2015, in preparation for the Company’s IPO, the Company’s Board of Directors and stockholders approved a 1-for-4.25 reverse split of the Company’s common stock, which became effective on October 29, 2015. All share and per share amounts in the condensed consolidated financial statements and notes thereto have been retroactively adjusted for all periods presented to give effect to this reverse split, including reclassifying an amount equal to the reduction in par value of common stock to additional paid-in capital. In connection with the closing of the IPO, all of the Company’s outstanding redeemable convertible preferred stock automatically converted into shares of common stock as of November 16, 2015, resulting in the issuance by the Company of an additional 17,647,054 shares of common stock. The significant increase in shares outstanding in November 2015 is expected to impact the year-over-year comparability of the Company’s net loss per share calculation.

These condensed consolidated financial statements should be read in conjunction with the Company’s audited consolidated financial statements included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2015 as filed with the SEC.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. On an ongoing basis, the Company’s management evaluates its estimates, which include, but are not limited to, estimates related to revenue recognition, accrued expenses, valuation of the tranche rights, stock-based compensation expense, income taxes, and prior to the closing of the IPO, the fair value of common stock. The Company bases its estimates on historical experience and other market specific or other relevant assumptions that it believes to be reasonable under the circumstances. Actual results may differ from those estimates or assumptions.

Recent Accounting Pronouncements

In May 2014, the FASB issued ASU No. 2014-09, *Revenue From Contracts With Customers*. ASU 2014-09 amends ASC 605, *Revenue Recognition*, by outlining a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers. The adoption of this ASU has been subsequently amended by ASU 2015-14, *Revenue from Contracts with Customers (Topic 606): Deferral of the Effective Date*; ASU 2016-10, *Revenue from Contracts with Customers (Topic 606): Identifying Performance Obligations and Licensing*; and ASU 2016-12, *Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients*. The new standard provides a five step framework whereby revenue is recognized when promised goods or services are transferred to a customer at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard is effective for interim and annual periods beginning after December 15, 2017, with early adoption one year prior to the effective date allowed, and allows for adoption using a full retrospective method, or a modified retrospective method. The Company has not yet determined which adoption method it will utilize or the effect that the adoption of this guidance will have on its consolidated financial statements.

In August 2014, the FASB issued ASU No. 2014-15, *Presentations of Financial Statements, Going Concern*, which requires management to assess an entity’s ability to continue as a going concern every reporting period, and provide certain disclosures if management has substantial doubt about the entity’s ability to operate as a going concern, or an express statement if not, by incorporating and expanding upon certain principles that are currently in U.S. auditing standards. This guidance is effective for the annual period ending after December 15, 2016, and for annual periods and interim periods thereafter. The adoption of this accounting standard may affect the Company’s financial statement

disclosures in future periods. The Company has evaluated the impact of this ASU if it had been applied to these financial statements and determined that they would have concluded that there is not substantial doubt about the Company's ability to continue as a going concern.

In February 2016, the FASB issued ASU 2016-02, *Leases*, which requires a lessee to recognize assets and liabilities on the balance sheet for operating leases and changes many key definitions, including the definition of a lease. The new standard includes a short-term lease exception for leases with a term of 12 months or less, as part of which a lessee can make an accounting policy election not to recognize lease assets and lease liabilities. Lessees will continue to differentiate between finance leases (previously referred to as capital leases) and operating leases using classification criteria that are substantially similar to the previous guidance. The new standard will be effective beginning January 1, 2019, and early adoption is permitted for public entities. The Company is currently evaluating the potential impact this ASU may have on its financial position.

In March 2016, the FASB issued ASU No. 2016-09, *Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*, which aims to simplify several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, classification of certain items on the statement of cash flows and accounting for forfeitures. The ASU is effective for public entities for fiscal years beginning after December 15, 2016, with early adoption permitted. The Company has not yet completed its assessment of the impact of the new standard on its consolidated financial statements.

3. Fair Value Measurements

Assets and liabilities measured at fair value on a recurring basis as of September 30, 2016 and December 31, 2015 are as follows:

Assets	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
(in thousands)				
September 30, 2016				
Money market funds included in cash and cash equivalents	\$ 63,008	\$ 63,008	\$ —	\$ —
Marketable securities:				
U.S. Treasury notes	112,486	112,486	—	—
U.S. Government agency securities	15,160	—	15,160	—
Equity securities	2,416	2,416	—	—
Total marketable securities	<u>\$ 130,062</u>	<u>\$ 114,902</u>	<u>\$ 15,160</u>	<u>\$ —</u>
Warrants to purchase equity securities	1,559	—	1,559	—
Total	<u>\$ 194,629</u>	<u>\$ 177,910</u>	<u>\$ 16,719</u>	<u>\$ —</u>
December 31, 2015				
Money market funds included in cash and cash equivalents	\$ 29,601	\$ 29,601	\$ —	\$ —
Marketable securities:				
U.S. Treasury notes	157,981	157,981	—	—
U.S. Government agency securities	35,055	—	35,055	—
Total marketable securities	<u>193,036</u>	<u>157,981</u>	<u>35,055</u>	<u>—</u>
Total	<u>\$ 222,637</u>	<u>\$ 187,582</u>	<u>\$ 35,055</u>	<u>\$ —</u>

The Company measures the fair value of money market funds, U.S. Treasuries and equity securities based on quoted prices in active markets for identical securities. The Level 2 debt securities include U.S. Government agency securities that are valued either based on recent trades of securities in inactive markets or based on quoted market prices of similar instruments and other significant inputs derived from or corroborated by observable market data. The Level 2 equity securities include warrants used to purchase equity securities that are valued using the Black-Scholes model. The Black-Scholes option pricing model requires inputs based on certain subjective assumptions, including (a) the expected stock price volatility, (b) the calculation of expected term of the awards, (c) the risk-free interest rate, and (d) expected dividends. The assumptions utilized to value the warrants to purchase equity securities on the acquisition date, September 2, 2016, and as of September 30, 2016 are as follows:

	<u>As of September 2,</u> <u>2016</u>	<u>As of September 30,</u> <u>2016</u>
Risk-free interest rate	1.2 %	1.1 %
Expected dividend yield	— %	— %
Expected term (in years)	5.0	4.9
Expected volatility	92.3 %	92.3 %

The expected volatility is based on the historic volatility for the equity securities underlying the warrants and is calculated based on a period of time commensurate with the expected term assumption. The expected term is based on the remaining contractual life of the warrants on each measurement date. The risk-free interest rate is based on a treasury instrument whose term is consistent with the expected term of the warrants. The expected dividend yield is assumed to be zero as the entity that issues the warrants has never paid and has not indicated any intention to pay dividends.

4. Cash, Cash Equivalents, and Available for Sale Marketable Securities

Cash equivalents include all highly liquid investments maturing within 90 days from the date of purchase. Investments consist of securities with original maturities greater than 90 days when purchased. The Company classifies these investments as available-for-sale and records them at fair value in the accompanying condensed consolidated balance sheets. Unrealized gains or losses are included in accumulated other comprehensive income (loss). Premiums or discounts from par value are amortized to investment income over the life of the underlying investment.

The Company classifies marketable debt securities with a remaining maturity when purchased of greater than three months as available-for-sale. Marketable debt securities with a remaining maturity date greater than one year and marketable equity securities are classified as non-current where the Company has the intent and ability to hold these securities for at least the next 12 months. Available-for-sale debt securities are maintained by an investment manager and consist of U.S. Treasury securities and U.S. Government agency securities. During the third quarter in 2016, the Company invested in a supplier and received common stock and warrants to purchase common stock in that entity. The common stock is included in non-current marketable securities and the warrants are included in non-current assets.

All available-for-sale securities are carried at fair value with the unrealized gains and losses included in other comprehensive income (loss) as a component of stockholders' equity until realized. Any premium or discount arising at purchase is amortized and/or accreted to interest income and/or expense. Realized gains and losses are determined using the specific identification method and are included in other income (expense). If any adjustment to fair value reflects a decline in value of the investment, the Company considers all available evidence to evaluate the extent to which the decline is "other-than-temporary" and, if so, recognizes the unrealized loss through a charge to the Company's statement of operations and comprehensive loss. No other temporary losses have been recognized.

Cash, cash equivalents, and marketable securities included the following at September 30, 2016 and December 31, 2015:

	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
(in thousands)				
As of September 30, 2016				
Money market funds included in cash and cash equivalents	\$ 63,008	\$ —	\$ —	\$ 63,008
Total money market funds included in cash and cash equivalents	<u>\$ 63,008</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 63,008</u>
Marketable securities:				
U.S. Treasury notes	112,489	—	3	112,486
U.S. Government agency bonds	15,153	7	—	15,160
Total debt securities	<u>\$ 127,642</u>	<u>\$ 7</u>	<u>\$ 3</u>	<u>\$ 127,646</u>
Equity securities	1,220	1,196	—	2,416
Total marketable securities	<u>\$ 128,862</u>	<u>\$ 1,203</u>	<u>\$ 3</u>	<u>\$ 130,062</u>
Total money market funds and marketable securities	<u>\$ 191,870</u>	<u>\$ 1,203</u>	<u>\$ 3</u>	<u>\$ 193,070</u>
As of December 31, 2015				
Money market funds included in cash and cash equivalents	\$ 29,601	\$ —	\$ —	\$ 29,601
Total money market funds included in cash and cash equivalents	<u>\$ 29,601</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 29,601</u>
Marketable securities:				
U.S. Treasury notes	158,166	—	185	157,981
U.S. Government agency bonds	35,121	—	66	35,055
Total marketable securities	<u>\$ 193,287</u>	<u>\$ —</u>	<u>\$ 251</u>	<u>\$ 193,036</u>
Total money market funds and marketable securities	<u>\$ 222,888</u>	<u>\$ —</u>	<u>\$ 251</u>	<u>\$ 222,637</u>

The estimated fair value of the Company's debt securities balance at September 30, 2016, by contractual maturity, is as follows:

Due in one year or less	\$ 127,646
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5. Accrued Expenses

Accrued expenses as of September 30, 2016 and December 31, 2015 consist of the following:

	<u>As of September 30,</u> <u>2016</u>	<u>As of December 31,</u> <u>2015</u>
(in thousands)		
Research and development costs	\$ 2,552	\$ 1,329
Employee compensation costs	1,953	1,338
Professional services	887	350
Other	856	178
Patent costs	56	235
Total	<u>\$ 6,304</u>	<u>\$ 3,430</u>

6. Commitments and Contingencies

Operating Leases

During March 2014, the Company entered into an agreement to lease its facility under a non-cancelable operating lease that expires on December 15, 2019. The lease contains escalating rent clauses which require higher rent payments in future years. The Company expenses rent on a straight-line basis over the term of the lease, including any rent-free periods.

The Company received a leasehold improvement incentive from the landlord totaling \$1.3 million. The Company recorded these incentives as a component of deferred rent and will amortize these incentives as a reduction of rent expense over the life of the lease. These leasehold improvements have been recorded as fixed assets.

In January 2016, the Company executed an amendment to extend the lease to December 2024 to coincide with an agreement to lease an additional facility of approximately 26,000 square feet in Cambridge, Massachusetts. The leases include two renewal options, each for five year terms, and at fair market value upon exercise. The Company will expense rent on a straight-line basis over the term of the new lease, including any rent-free periods once the landlord delivery date has commenced, and the Company gains access to the facility. The Company received delivery of the property in September 2016 and the new space is projected to be ready for occupancy in early 2017.

The Company is entitled to receive a leasehold improvement incentive for the new lease from the landlord totaling \$3.5 million. The Company will record these incentives as a component of deferred rent and will amortize these incentives as a reduction of rent expense over the life of the lease.

The following table summarizes our significant contractual obligations as of payment due date by period at September 30, 2016:

	Total Minimum Lease Payments (in thousands)
2016	298
2017	3,211
2018	3,290
2019	3,382
2020	3,762
2021+	16,140
	\$ 30,083

Significant Agreements

Genzyme Collaboration Agreement

Summary of Agreement

In February 2015, the Company entered into an agreement with Genzyme (“Collaboration Agreement”), which included a non-refundable upfront payment of \$65.0 million. In addition, contemporaneous with entering into the Collaboration Agreement, Genzyme entered into a Series B Stock Purchase Agreement, under which Genzyme purchased 10,000,000 shares of Series B Preferred Stock for \$30.0 million. The fair value of the Series B Preferred Stock at the time of issuance was approximately \$25.0 million. The \$5.0 million premium over the fair value is accounted for as additional consideration under the Collaboration Agreement.

Under the Collaboration Agreement, the Company granted Genzyme an exclusive option to license, develop and commercialize (i) ex-U.S. rights to the following programs, which are referred to as Split Territory Programs; VY-AADC01 (“Parkinson’s Program”), VY-FXN01 (“Friedreich’s Ataxia Program”), a future program to be designated by Genzyme (“Future Program”) and VY-HTT01 (“Huntington’s Program”) with an incremental option to co-commercialize VY-HTT01 in the United States and (ii) worldwide rights to VY-SMN101 (“Spinal Muscular Atrophy Program”). Genzyme’s option for the Split Territory Programs and the Spinal Muscular Atrophy Program is triggered following the completion of the first proof-of-principle human clinical study (“POP Study”), on a program-by-program basis.

Prior to any option exercise by Genzyme, the Company will collaborate with Genzyme in the development of products under each Split Territory Program and VY-SMN101 pursuant to a written development plan and under the guidance of an Alliance Joint Steering Committee (“AJSC”), comprised of an equal number of employees from the Company and Genzyme.

The Company is required to use commercially reasonable efforts to develop products under each Split Territory Program and the Spinal Muscular Atrophy Program through the completion of the applicable POP Study. During the development of these joint programs, the activities are guided by a Development Advisory Committee (“DAC”). The

DAC may elect to utilize certain Genzyme technology relating to the Parkinson's Program, the Huntington's Program, or generally with the manufacture of Split Territory Program products.

The Company is solely responsible for all costs incurred in connection with the development of the Split Territory Programs and the Spinal Muscular Atrophy Program products prior to the exercise of an option by Genzyme with the exception of the following: (i) at the Company's request and upon mutual agreement, Genzyme will provide "in-kind" services valued at up to \$5.0 million and (ii) Genzyme shall be responsible for the costs and expenses of activities under the Huntington's Program development plan to the extent such activities are covered by financial support Genzyme is entitled to receive from a patient advocacy group, collectively Genzyme "in-kind" and other funding.

Other than the Parkinson's Program (for which a POP Study has already been commenced), if the Company does not initiate a POP Study for a given Split Territory Program by December 31, 2026 (or for the Future Program by the tenth anniversary of the date the Future Program is nominated by Genzyme), and Genzyme has not terminated the Collaboration Agreement with respect to the collaboration program, then Genzyme shall be entitled, as its sole and exclusive remedy, to a credit of \$10.0 million for each such program against other milestone or royalty payments payable by Genzyme under the Collaboration Agreement. However, if the POP Study is not initiated due to a regulatory delay or a force majeure event, such time period shall be extended for so long as such delay continues.

With the exception of the Parkinson's Program, Genzyme is required to pay an option exercise payment of \$20.0 million or \$30.0 million for each Split Territory Program, as well as the Spinal Muscular Atrophy Program.

Upon Genzyme's exercise of its option to license a given product in a Split Territory Program ("Split Territory Licensed Product"), the Company will have sole responsibility for the development of such Split Territory Licensed Product in the United States and Genzyme shall have sole responsibility for development of such Split Territory Licensed Product in the rest of the world. The Company and Genzyme will have shared responsibility for execution of ongoing development of such Split Territory Licensed Product that is not specific to either territory, including costs associated therewith. The Company is responsible for all commercialization activities relating to Split Territory Licensed Products in the United States, including all of the associated costs. Genzyme is responsible for all commercialization activities relating to the Split Territory Licensed Products in the rest of the world, including all of the associated costs. If Genzyme exercised its co-commercialization rights for the Huntingtons' Program product ("Huntington's Licensed Product"), Genzyme will be the lead party responsible for all commercialization activities related to such product in the United States.

Upon exercise of the option, Genzyme shall have the sole right to develop the licensed product from the Spinal Muscular Atrophy Program (the "Spinal Muscular Atrophy Licensed Product") worldwide. Genzyme shall be responsible for all of the development costs that occur after the option exercise date for the Spinal Muscular Atrophy Program. Genzyme is also responsible for commercialization activities relating to the Spinal Muscular Atrophy Licensed Product worldwide.

Genzyme is required to pay the Company for specified regulatory and commercial milestones, if achieved, up to \$645 million across all programs. The regulatory approval milestones are payable upon either regulatory approval in the United States or regulatory and reimbursement approval in the European Union and range from \$40.0 million to \$50.0 million per milestone, with an aggregate total of \$265 million. The commercial milestones are payable upon achievement of specified annual net sales in each program and range from \$50.0 million to \$100 million per milestone, with an aggregate total of \$380 million.

In addition, to the extent any Split Territory Licensed Products or the Spinal Muscular Atrophy Licensed Product are commercialized, the Company is entitled to tiered royalty payments ranging from the mid-single digits to mid-teens based on a percentage of net sales by Genzyme. Genzyme is entitled to receive tiered royalty payments related to sales of Split Territory Licensed Product ranging from the low-single digits to mid-single digits based on a percentage of net sales by the Company depending on whether the Company uses Genzyme technology in the Split Territory Licensed Product. If Genzyme elects to co-commercialize VY-HTT01 in the United States, the Company and Genzyme will share in any profits or losses from VY-HTT01 product sales.

The Collaboration Agreement will continue in effect until the later of (i) the expiration of the last to expire of the option rights and (ii) the expiration of all payment obligations unless sooner terminated by the Company or Genzyme. The Company and Genzyme have customary termination rights including the right to terminate for an uncured material breach of the agreement committed by the other party and Genzyme has the right to terminate for convenience.

Accounting Analysis

The Collaboration Agreement includes the following deliverables: (i) research and development services for each of the Split Territory License Programs and the Spinal Muscular Atrophy Program, (ii) participation in the AJSC, (iii) participation in the DAC and (iv) the option to obtain a development and commercial license in the Parkinson's Program and related deliverables. The Company has determined that the option to obtain a development and commercial license in the Parkinson's Program is not a substantive option for accounting purposes, primarily because there is no additional option exercise payment payable by Genzyme at the time the option is exercised. Therefore, the option to obtain a license and other obligations of the Company that are contingent upon exercise of the option are considered deliverables at the inception of the arrangement. The options in the other Split Territory Programs and the Spinal Muscular Atrophy Program are considered substantive as there is substantial option exercise payments payable by Genzyme upon exercise. In addition, as a result of the uncertainties related to the discovery, research, development and commercialization activities, the Company is at risk with regard to whether Genzyme will exercise the options. Moreover, the substantive options are not priced at a significant incremental discount. Accordingly, the substantive options are not considered deliverables at the inception of the arrangement and the associated option exercise payments are not included in allocable arrangement consideration. The Company has also determined that any obligations which are contingent upon the exercise of a substantive option are not considered deliverables at the outset of the arrangement, as these deliverables are contingent upon the exercise of the options. In addition, any option exercise payments associated with the substantive options are not included in the allocable arrangement consideration.

The Company has concluded that each of the deliverables identified at the inception of the arrangement has standalone value from the other undelivered elements. Additionally, the Collaboration Agreement does not include return rights related to the initial collaboration term. Accordingly, each deliverable qualifies as a separate unit of accounting.

The Company has identified \$79.3 million of allocable arrangement consideration consisting of the \$65 million upfront fee, the \$5.0 million premium paid in excess of fair value of the Series B Preferred Stock and \$9.3 million of Genzyme "in-kind" and other funding.

The Company has allocated the allocable arrangement consideration based on the relative selling price of each unit of accounting. For all units of accounting, the Company determined the selling price using the best estimate of selling price ("BESP"). The Company determined the BESP for the service related deliverable for the research and development activities based on internal estimates of the costs to perform the services, including expected internal expenses and expenses with third parties for services and supplies, marked up to include a reasonable profit margin and adjusted for the scope of the potential license. Significant inputs used to determine the total expense of the research and development activities include, the length of time required and the number and costs of various studies that will be performed to complete the applicable POP Study. The BESP for the AJSC and DAC have been estimated based on the costs incurred to participate in the committees, marked up to include a reasonable profit margin. The BESP for the license option was determined based on the estimated value of the license and related deliverables adjusted for the estimated probability that the option would be exercised by Genzyme.

Based on the relative selling price allocation, the allocable arrangement consideration was allocated as follows:

<u>Unit of Accounting</u>	<u>Amount</u> <u>(in thousands)</u>
Research and Development Services for:	
Huntington's Program	\$ 15,662
Parkinson's Program	6,648
Friedreich's Ataxia Program	16,315
Spinal Muscular Atrophy Program	32,050

Future Program	2,464
Committee Obligations:	
AJSC	147
DAC	227
License Option and related deliverables	5,743
Total	<u>\$ 79,256</u>

The Company recognizes the amounts associated with research and development services on a straight line basis over the estimated period of service as there is no discernable pattern or objective measure of performance for the services. Similarly, the Company recognizes the amount associated with the committee obligations on a straight line basis over the period of service consistent with the expected pattern of performance. The amounts allocated to the license option will be deferred until the option is exercised. The revenue recognition upon option exercise will be determined based on whether the license has standalone value from the remaining deliverables at the time of exercise.

During the second quarter of 2016, the Company reassessed the estimated period of performance for each of its units of accounting and, based on then current facts and circumstances, determined that the estimated period would be extended for two units of accounting. This adjustment was made on a prospective basis and resulted in a decrease in revenues recognized by \$1.2 million per quarter due to this adjustment. During the third quarter of 2016, the Company reassessed and reduced the estimates related to the amount of “in-kind” services that are expected to be provided by Genzyme. This adjustment was made on a prospective basis and resulted in a decrease in revenues recognized by \$0.5 million during the three months ended September 30, 2016.

The Company has evaluated all of the milestones that may be received in connection with each Split Territory Licensed Product and the Spinal Muscular Atrophy Licensed Product. In evaluating if a milestone is substantive, the Company assesses whether: (i) the consideration is commensurate with either the Company’s performance to achieve the milestone or the enhancement of the value of the delivered item(s) as a result of a specific outcome resulting from the Company performance to achieve the milestone, (ii) the consideration relates solely to past performance and (iii) the consideration is reasonable relative to all of the deliverables and payment terms within the arrangement. All regulatory milestones are considered substantive on the basis of the contingent nature of the milestone, specifically reviewing factors such as the scientific, clinical, regulatory, and other risks that must be overcome to achieve the milestone as well as the level of effort and investment required. Accordingly, such amounts will be recognized as revenue in full in the period in which the associated milestone is achieved, assuming all other revenue recognition criteria are met. All commercial milestones will be accounted for in the same manner as royalties and recorded as revenue upon achievement of the milestone, assuming all other revenue recognition criteria are met.

During the three and nine months ended September 30, 2016, the Company recognized \$3,308,000 and \$11,858,000, respectively of revenue associated with its collaboration with Genzyme related to research and development services performed during the periods. As of September 30, 2016, there is \$43,752,000 of deferred revenue related to the Collaboration Agreement, which is classified as either current or noncurrent in the accompanying balance sheet based on the period the services are expected to be delivered.

Costs incurred relating to the programs that Genzyme has the option to license under the Collaboration Agreement consist of internal and external research and development costs, which primarily include: salaries and benefits, lab supplies and preclinical research studies. The Company does not separately track or segregate the amount of costs incurred under the Collaboration Agreement. All of these costs are included in research and development expenses in the Company’s statement of operations during the three and nine months ended September 30, 2016. The Company estimates that the majority of research and development expense during the period relate to programs for which Genzyme has an option right.

MRI Interventions License and Securities Purchase Agreements

In September 2016, the Company entered into Securities Purchase and License agreements with MRI Interventions, Inc. (“MRIC”). MRIC is the primary supplier of the ClearPoint System, which is being used by the Company in ongoing development and clinical trials. Under the Securities Purchase Agreement, the Company paid \$2.0 million for

shares of MRIC common stock and a warrant to purchase additional shares of MRIC common stock. The License Agreement provides for certain rights to MRIC technology, and for MRIC to transfer the rights and know-how to manufacture the ClearPoint System, in order to enable the Company to utilize an alternative supplier for the ClearPoint System for use in the Company's development and clinical trials. Upon completion of the transfer of the manufacturing and know how, the Company may be obligated to purchase an additional \$1.0 million of MRIC common stock at the then fair market value. In addition, the Company has purchased approximately \$0.3 million of supplies for use in the ongoing development and clinical trials and have agreed to negotiate a Development and Supply agreement in the future.

Accounting Analysis

The Company has accounted for its interest in MRIC common stock under ASC 320 "*Investments - Debt and Equity Securities*" since the Company does not have the ability to control or exercise significant influence over the operations of MRIC. As the MRIC common stock is actively traded, the Company has accounted for the investment in MRIC common stock as an available-for-sale marketable security. The \$2.0 million payment was allocated to the common stock and warrant, based on relative fair value. The investment in MRIC common stock was initially recorded at \$1.2 million and the warrant was recorded at \$0.8 million.

The shares of MRIC common stock are classified as non-current available-for-sale marketable securities and the warrants are classified as other assets in the accompanying balance sheet. Remeasurement gains related to the marketable securities are recorded as a component of other comprehensive income and gains related to the warrant are recorded as a component of other expenses in the consolidated statement of operations.

The Company concluded that the fair value of the potential obligation to purchase an additional \$1.0 million of common stock was insignificant as the share acquisition price will be based on the market price of the MRIC common stock upon completion of the transfer of manufacturing and know how.

Litigation

The Company is not a party to any litigation and does not have contingency reserves established for any litigation liabilities as of September 30, 2016 or December 31, 2015.

7. Redeemable Convertible Preferred Stock

In November 2015, upon the closing of the Company's IPO, all issued and outstanding redeemable convertible preferred stock was automatically converted into 17,647,054 shares of common stock.

The Company has authorized preferred stock amounting to 5,000,000 shares as of September 30, 2016 and December 31, 2015. The authorized preferred stock was classified under stockholders' equity at September 30, 2016 and December 31, 2015.

8. Stock-Based Compensation

2015 Stock Option Plan

In October 2015, the Company's board of directors and stockholders approved the 2015 Stock Option and Incentive Plan, or 2015 Stock Option Plan, which became effective upon the completion of the IPO. The 2015 Stock Option Plan provides the Company with the flexibility to use various equity-based incentive and other awards as compensation tools to motivate its workforce. These tools include stock options, stock appreciation rights, restricted stock, restricted stock units, unrestricted stock, performance share awards and cash-based awards. The 2015 Stock Option Plan replaced the Voyager Therapeutics, Inc. 2014 Stock Option and Grant Plan, or the 2014 Plan. Any options or awards outstanding under the 2014 Plan remained outstanding and effective. The number of shares initially reserved for issuance under the 2015 Stock Option Plan is the sum of (i) 1,311,812 shares of common stock and (ii) the number of shares under the 2014 Plan that are not needed to fulfill the Company's obligations for awards issued under the 2014 Plan as a result of forfeiture, expiration, cancellation, termination or net issuances of awards thereunder. The number of shares of common stock that may be issued under the 2015 Stock Option Plan is also subject to increase on the first day of each fiscal year by up to 4% of the Company's issued and outstanding shares of common stock on the immediately preceding December 31.

Effective January 1, 2016, an additional 1,069,971 shares were added to the Company's 2015 Stock Option Plan for future issuance. As of September 30, 2016, there were 1,879,606 shares of common stock available for future award grants under the 2015 Stock Option Plan. During the three and nine months ended September 30, 2016, the Company issued a total of 84,600 and 888,110 stock options, respectively, to employees and directors under the 2015 Stock Option Plan. During the three and nine months ended September 30, 2016, the Company issued a total of 6,000 and 8,500 stock options, respectively, to non-employees under the 2015 Stock Option Plan.

2014 Stock Option and Grant Plan

In January 2014 the Company adopted the 2014 Plan, under which it may grant incentive stock options, non-qualified stock options, restricted stock awards, unrestricted stock awards, or restricted stock units to purchase up to 823,529 shares of Common Stock to employees, officers, directors and consultants of the Company.

In April 2014 the Company amended the 2014 Plan to allow for the issuance of up to 1,411,764 shares of common stock. In August 2014, April 2015, August 2015, and October 2015, the Company further amended the 2014 Plan to allow for the issuance of up to 2,000,000, 2,047,058, 2,669,411, and 2,998,823 shares of Common Stock, respectively. During 2014 the Company issued only restricted stock awards under the 2014 Plan and during 2015 the Company only granted stock options.

The terms of stock awards agreements, including vesting requirements, are determined by the Board of Directors and are subject to the provisions of the 2014 Plan.

Founder Awards

In January 2014 the Company issued 1,188,233 shares of restricted stock to its Founders at an original issuance price of \$0.0425 per share. Of the total restricted shares awarded to the Founders, 835,292 shares generally vest over one to four years, based on each Founder's continued service to the Company in varying capacity as a Scientific Advisory Board member, consultant, director, officer or employee, as set forth in each grantee's individual restricted stock purchase agreement. The remaining 352,941 of the shares issued will begin vesting upon the achievement of certain performance objectives as well as continued service to the Company, as set forth in the agreements.

These performance conditions are tied to certain milestone events specific to the Company's corporate goals, including but not limited to preclinical and clinical development milestones related to the Company's product candidates. Stock-based compensation expense associated with these performance-based awards is recognized when the achievement of the performance condition is considered probable, using management's best estimates. During the nine months ended September 30, 2016, management determined that the achievement of the performance milestone for one of the three performance-based awards had become probable. Accordingly, stock-based compensation expense in the amount of \$151,000 and \$960,000 was recorded related to this award during the three and nine months ended September 30, 2016, respectively. No stock-based compensation expense was recorded for the remaining two Founders' awards with performance-based vesting as of September 30, 2016 as the performance-based milestones related to these awards were not probable.

2015 Employee Stock Purchase Plan

In October 2015, the Company’s board of directors and stockholders approved the 2015 Employee Stock Purchase Plan, or the 2015 ESPP. Under the 2015 ESPP, all full-time employees of the Company are eligible to purchase common stock of the Company twice per year, at the end of each six-month payment period. During each payment period, eligible employees who so elect, may authorize payroll deductions in an amount of 1% to 10% (whole percentages only) of the employee’s base pay for each payroll period. At the end of each payment period, the accumulated deductions are used to purchase shares of common stock from the Company at a discount. A total of 262,362 shares of common stock were initially authorized for issuance under this plan. The 2015 ESPP became effective upon the completion of the IPO. Effective January 1, 2016, 267,492 shares of common stock were added to the 2015 ESPP.

Stock-Based Compensation Expense

Total compensation cost recognized for all stock-based compensation awards in the statements of operations and comprehensive loss is as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
	(in thousands)			
Research and development	\$ 1,378	\$ 627	\$ 3,426	\$ 1,486
General and administrative	411	230	1,103	575
Total stock-compensation expense	<u>\$ 1,789</u>	<u>\$ 857</u>	<u>\$ 4,529</u>	<u>\$ 2,061</u>

Restricted Stock

A summary of the status of and changes in unvested restricted stock unit activity under the Company’s equity award plan was as follows:

	Shares	Weighted Average Grant Date Fair Value Per Share
Unvested restricted common stock as of December 31, 2015	1,818,261	\$ 0.76
Issued	—	—
Vested	(468,648)	\$ 0.77
Repurchased	(48,776)	—
Unvested restricted common stock as of September 30, 2016	<u>1,300,837</u>	\$ 0.74

The expense related to awards granted to employees and non-employees was \$128,000 and \$691,000, respectively, for the three months ended September 30, 2016, and \$393,000 and \$1,871,000 for the nine months ended September 30, 2016, respectively. The expense related to awards granted to employees and non-employees was \$134,000 and \$457,000, respectively, for the three months ended September 30, 2015, and \$325,000 and \$1,119,000 for the nine months ended September 30, 2015.

As of September 30, 2016, the Company had unrecognized stock-based compensation expense related to its unvested restricted stock awards of \$11,808,000, which is expected to be recognized over the remaining average vesting period of 1.6 years.

Stock Options

The following is a summary of stock option activity for the nine months ended September 30, 2016:

	Shares	Weighted Average Exercise Price	Remaining Contractual Life (in years)	Aggregate Intrinsic Value (in thousands)
Outstanding at December 31, 2015	1,022,617	\$ 8.35		
Granted	896,610	\$ 11.83		
Exercised	(19,618)	\$ 7.50		
Cancelled or forfeited	(36,990)	\$ 10.07		
Outstanding at September 30, 2016	1,862,619	\$ 10.01	9.1	\$ 4,353
Exercisable at September 30, 2016	388,345	\$ 8.65	8.7	\$ 1,311
Vested and expected to vest at September 30, 2016	1,862,619	\$ 10.01	9.1	\$ 4,353

Using the Black-Scholes option pricing model, the weighted average fair value of options granted to employees and directors during the three and nine months ended September 30, 2016 was \$8.98 and \$7.62 per share, respectively. The expense related to awards granted to employees and directors was \$914,000 and \$2,155,000 for the three and nine months ended September 30, 2016, respectively. The weighted average fair value of options granted to employees and directors during the three and nine months ended September 30, 2015 was \$5.66 and \$5.39 per share, respectively. The expense related to awards granted to employees and directors was \$215,000 and \$352,000 for the three and nine months ended September 30, 2015, respectively.

The fair value of each option issued to employees and directors was estimated at the date of grant using the Black-Scholes option pricing model with the following weighted-average assumptions:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Risk-free interest rate	1.2 %	1.7 %	1.5 %	1.6 %
Expected dividend yield	— %	— %	— %	— %
Expected term (in years)	6.0	6.0	6.0	6.0
Expected volatility	73.2 %	78.4 %	73.1 %	78.6 %

Using the Black-Scholes option pricing model, the weighted average grant date fair value of options granted to non-employees during the nine months ended September 30, 2016 was \$9.21 per share. Unvested options granted to non-employees are revalued at each measurement period until fully vested. The expense related to awards granted to non-employees was \$56,000 and \$110,000 for the three and nine months ended September 30, 2016, respectively. The weighted average grant date fair value of options granted to non-employees during the nine months ended September 30, 2015 was \$6.23 per share. The expense related to awards granted to non-employees was \$49,000 and \$263,000 for the three and nine months ended September 30, 2015, respectively.

The fair value of each option issued to non-employees was estimated at each vesting and reporting date using the Black-Scholes option pricing model. The reporting date fair value was determined using the following weighted-average assumptions:

	As of September 30,	
	2016	2015
Risk-free interest rate	1.9 %	2.2 %
Expected dividend yield	— %	— %
Expected term (in years)	8.9	10.0
Expected volatility	84.0 %	82.6 %

As of September 30, 2016, the Company had unrecognized stock-based compensation expense related to its unvested stock options of \$9,413,000 which is expected to be recognized over the remaining weighted average vesting period of 2.9 years.

For the three and nine months ended September 30, 2016 and September 30, 2015, expected volatility was estimated using the historical volatility of the common stock of a peer group of publicly-traded companies that are similarly situated to the Company. The Company will continue to apply this process until a sufficient amount of historical information regarding the volatility of its own stock price becomes available.

9. Income taxes

Deferred tax assets and deferred tax liabilities are recognized based on temporary differences between the financial reporting and tax basis of assets and liabilities using statutory rates. A valuation allowance is recorded against deferred tax assets if it is more likely than not that some or all of the deferred tax assets will not be realized. Due to the uncertainty surrounding the realization of the favorable tax attributes in future tax returns, the Company has recorded a full valuation allowance against the Company's otherwise recognizable net deferred tax assets.

For the three and nine months ended September 30, 2016, the Company recognized an income tax benefit of \$0.3 million, and tax expense in other comprehensive loss of \$0.6 million related to the unrealized gain on available-for-sale securities. As of September 30, 2016, the Company recorded an accrued income tax provision of \$0.3 million related to this tax benefit included within accrued expenses and other current liabilities in the condensed consolidated balance sheet, which is expected to be generated from continuing operations.

10. Net Loss Per Share

The following table sets forth the outstanding potentially dilutive securities that have been excluded in the calculation of diluted net loss per share because to do so would be anti-dilutive (in common stock equivalent shares):

	As of September 30,	
	2016	2015
Redeemable convertible preferred stock	—	17,647,054
Unvested restricted common stock	1,300,837	2,013,140
Outstanding stock options	1,862,619	852,249
Total	3,163,456	20,512,443

11. Related-Party Transactions

During the three and nine months ended September 30, 2016 and September 30, 2015, the Company received consulting and management services from one of its investors. The total amount of consulting and management services provided by this investor was approximately \$19,000 and \$35,000 during the three and nine months ended September 30, 2016, respectively. The total amount of services provided by this investor was approximately \$6,000 and \$115,000 during the three and nine months ended September 30, 2015, respectively. As of September 30, 2016, the Company had a balance of \$19,000 in accounts payable related to consulting and management service fees charged by this investor.

During the three and nine months ended September 30, 2016, the Company recognized \$3,308,000 and \$11,858,000, respectively, of revenue associated with the Collaboration Agreement related to research and development services provided during this period. During the three and nine months ended September 30, 2015, the Company recognized \$4,937,000 and \$12,397,000, respectively, of revenue associated with the Collaboration Agreement related to research and development services provided during the period. The Company also recognized \$236,000 and \$989,000 of expense during the three and nine months ended September 30, 2016, respectively, related to in-kind services provided by Genzyme associated with the Collaboration Agreement. The Company recognized \$125,000 and \$2,190,000 of

expense during the three and nine months ended September 30, 2015, respectively, related to in-kind services provided by Genzyme under the Collaboration Agreement.

NOTE 12. Subsequent Event

In November 2016, the Company elected to deprioritize the development of VY-SMN101 for spinal muscular atrophy due to, among other things, the progress the Company has made in other preclinical programs, and the evolving competitive landscape. Collaboration revenue recognition related to this program will be assessed during the fourth quarter 2016 and is expected to decrease.

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

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited condensed consolidated financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q and the audited financial information and the notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2015, which was filed with the Securities and Exchange Commission, or the SEC, on March 17, 2016.

Our actual results and timing of certain events may differ materially from the results discussed, projected, anticipated, or indicated in any forward-looking statements. We caution you that forward-looking statements are not guarantees of future performance and that our actual results of operations, financial condition and liquidity, and the development of the industry in which we operate may differ materially from the forward-looking statements contained in this Quarterly Report on Form 10-Q. In addition, even if our results of operations, financial condition and liquidity, and the development of the industry in which we operate are consistent with the forward-looking statements contained in this Quarterly Report on Form 10-Q, they may not be predictive of results or developments in future periods.

The following information and any forward-looking statements should be considered in light of factors discussed elsewhere in the Quarterly Report on Form 10-Q, including those risks identified under Part II, Item 1A. Risk Factors.

These forward-looking statements are made under the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements are neither promises nor guarantees. We caution readers not to place undue reliance on any forward-looking statements made by us, which speak only as of the date they are made. We disclaim any obligation, except as specifically required by law and the rules of the SEC, to publicly update or revise any such statements to reflect any change in our expectations or in events, conditions or circumstances on which any such statements may be based, or that may affect the likelihood that actual results will differ from those set forth in the forward-looking statements.

Overview

We are a clinical-stage gene therapy company focused on developing life-changing treatments for patients suffering from severe diseases of the central nervous system, or CNS. We focus on CNS diseases where we believe an adeno-associated virus, or AAV, gene therapy approach that either increases or decreases the production of a specific protein can slow or reduce the symptoms experienced by patients, and therefore have a clinically meaningful impact. We have created a product engine, which enables us to engineer, optimize, manufacture, and deliver our AAV-based gene therapies that have the potential to provide durable efficacy following a single administration directly to the CNS. Our product engine has rapidly generated six programs for CNS indications, including advanced Parkinson’s disease; a monogenic form of ALS; Friedreich’s ataxia; Huntington’s disease; frontotemporal dementia / Alzheimer’s disease, and severe, chronic pain. Our most advanced clinical candidate, VY-AADC01, is being evaluated for the treatment of advanced Parkinson’s disease in an open-label, Phase 1b clinical trial with the goal of generating human proof-of-concept data in early December 2016. We expect to submit an Investigational New Drug Application, or IND, for our ALS program, VY-SOD101, in late 2017. In November 2016, we elected to deprioritize the development of VY-SMN101 for spinal muscular atrophy due to, among other things, the progress we have made in our other preclinical programs, and the evolving competitive landscape.

Our pipeline of gene therapy programs is summarized in the table below:

VY-AADC01	Advanced Parkinson’s Disease	 Sanofi Genzyme (option)
VY-SOD101	Monogenic form of ALS	
VY-FXN01	Friedreich’s Ataxia	 Sanofi Genzyme (option)
VY-HTT01	Huntington’s Disease	 Sanofi Genzyme (option to co-U.S.)
VY-TAU01	FTD ⁽¹⁾ / Alzheimer’s Disease	
VY-NAV01	Severe, Chronic Pain	

Since our inception, our operations have focused on organizing and staffing our company, business planning, raising capital, establishing our intellectual property portfolio, determining which CNS indications to pursue and conducting preclinical studies and clinical trials. We do not have any product candidates approved for sale and have not generated any revenue from product sales. Prior to the completion of our initial public offering, or IPO, we funded our operations primarily through private placements of redeemable convertible preferred stock and common stock and our collaboration with Genzyme, or the Genzyme Collaboration, which commenced in February 2015. In November 2015, we closed our IPO whereby we sold 5,750,000 shares of common stock, at a public offering price of \$14.00 per share,

including 750,000 shares of common stock issued upon the full exercise by the underwriters of their option to purchase additional shares, resulting in net proceeds to us of \$72.9 million after deducting underwriting discounts, commissions, and offering expenses.

We have incurred significant operating losses since our inception. Our net losses were \$25.5 million for the nine months ended September 30, 2016. As of September 30, 2016, we had an accumulated deficit of \$75.3 million. We expect to continue to incur significant expenses and operating losses for the foreseeable future. We anticipate that our expenses will increase significantly in connection with our ongoing activities, as we:

- continue investing in our product engine to optimize vector engineering, manufacturing and dosing, and delivery techniques;
- continue development of our clinical candidate, VY-AADC01;
- initiate additional preclinical studies and clinical trials for our other programs;
- continue our process research and development activities, as well as establish our research-grade and commercial manufacturing capabilities;
- identify additional CNS diseases for treatment with our AAV gene therapies;
- seek marketing approvals for VY-AADC01 or other product candidates that arise from our programs that successfully complete clinical trials;
- develop a sales, marketing, and distribution infrastructure to commercialize any product candidates for which we may obtain marketing approval;
- maintain, expand, and protect our intellectual property portfolio; and
- identify, acquire, or in-license other product candidates and technologies.

Financial Operations Overview

Collaboration Revenue

To date, we have not generated any revenue from product sales and do not expect to generate any revenue from product sales for the foreseeable future. For the nine months ended September 30, 2016, we recognized \$11.9 million of collaboration revenue from the Genzyme Collaboration.

For the foreseeable future, we expect substantially all of our revenue will be generated from the Genzyme Collaboration, and any other strategic relationships we may enter into. If our development efforts are successful, we may also generate revenue from product sales.

Expenses

Research and Development Expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our program discovery efforts, and the development of our programs and product engine, which include:

- employee-related expenses including salaries, benefits, and stock-based compensation expense;

- costs of funding research performed by third parties that conduct research and development, preclinical activities, manufacturing, and production design on our behalf;
- the cost of purchasing lab supplies and non-capital equipment used in designing, developing, and manufacturing preclinical study materials;
- consultant fees;
- facility costs including rent, depreciation, and maintenance expenses; and
- fees for maintaining licenses under our third-party licensing agreements.

Research and development costs are expensed as incurred. Costs for certain activities such as manufacturing, preclinical studies, and clinical trials, are generally recognized based on an evaluation of the progress to completion of specific tasks using information and data provided to us by our vendors and collaborators.

At this time, we cannot reasonably estimate or know the nature, timing, and estimated costs of the efforts that will be necessary to complete the development of our product candidates. We are also unable to predict when, if ever, material net cash inflows will commence from sales of our product candidates. This is due to the numerous risks and uncertainties associated with developing such product candidates, including the uncertainty of:

- successful enrollment in and completion of clinical trials;
- establishing an appropriate safety profile;
- establishing commercial manufacturing capabilities or making arrangements with third-party manufacturers;
- receipt of marketing approvals from applicable regulatory authorities;
- commercializing our product candidates, if and when approved, whether alone or in collaboration with others;
- obtaining and maintaining patent and trade secret protection and regulatory exclusivity for our product candidates;
- continued acceptable safety profiles of the products following approval; and
- retention of key research and development personnel.

A change in the outcome of any of these variables with respect to the development of any of our product candidates would significantly change the costs, timing, and viability associated with the development of that product candidate.

Research and development activities are central to our business model. We expect research and development costs to increase significantly for the foreseeable future as our development programs progress, including as we continue to support the Phase 1b clinical trial of VY-AADC01 as a treatment for advanced Parkinson's disease, and move VY-AADC01 into additional clinical trials if the Phase 1b trial is successful. There are numerous factors associated with the successful commercialization of any of our product candidates, including future trial design and various regulatory requirements, many of which cannot be determined with accuracy at this time based on our stage of development.

Additionally, future commercial and regulatory factors beyond our control will impact our clinical development programs and plans.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and other related costs, including stock-based compensation for personnel in executive, finance, accounting, business development, legal, and human resource functions. Other significant costs include corporate facility costs not otherwise included in research and development expenses, legal fees related to patent and corporate matters, and fees for accounting and consulting services.

We anticipate that our general and administrative expenses will increase in the future to support continued research and development activities, including the continuation of the Phase 1b clinical trial of VY-AADC01, and the initiation of our clinical trials for our other product candidates. These increases will likely include increased costs related to the hiring of additional personnel and fees paid to outside consultants. We also anticipate increased expenses in comparison to general and administrative expenses of the prior year, associated with being a public company including costs for audit, legal, regulatory, and tax-related services, director and officer insurance premiums, and investor relations costs.

Critical Accounting Policies and Estimates

We have prepared our financial statements in accordance with U.S. generally accepted accounting principles. Our preparation of these financial statements requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets, liabilities, expenses, and related disclosures at the date of the financial statements, as well as revenue and expenses recorded during the reporting periods. We evaluate our estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results could therefore differ materially from these estimates under different assumptions or conditions.

There have been no material changes to our critical accounting policies from those described in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” included in our Annual Report on Form 10-K for the year ended December 31, 2015, which was filed with the SEC on March 17, 2016.

Results of Operations

Comparison of the three months ended September 30, 2016 and 2015

The following table summarizes our results of operations for the three months ended September 30, 2016 and 2015, together with the changes in those items in dollars:

	Three Months Ended September 30,		Change
	2016	2015	
	(in thousands)		
Collaboration revenue	\$ 3,308	\$ 4,937	\$ (1,629)
Operating expenses:			
Research and development	10,309	6,481	3,828
General and administrative	3,370	2,475	895
Total operating expenses	<u>13,679</u>	<u>8,956</u>	<u>4,723</u>
Other expense, net:			
Total other expense, net	<u>1,072</u>	<u>102</u>	<u>970</u>
Loss before income taxes	(9,299)	(3,917)	(5,382)
Income tax benefit	303	—	303
Net loss	<u>\$ (8,996)</u>	<u>\$ (3,917)</u>	<u>\$ (5,079)</u>

Collaboration Revenue

Collaboration revenue was \$3.3 million and \$4.9 million for the three months ended September 30, 2016 and September 30, 2015, respectively, all of which related to the Genzyme Collaboration for research and development services for various programs under the Collaboration Agreement. During the second quarter of 2016, we reassessed the estimated period of performance for each of the units of accounting and determined that the estimated period would be extended for two units of accounting. This adjustment was made on a prospective basis and resulted in decreases in revenue recognized by \$1.2 million per quarter. During the third quarter of 2016, we reassessed and reduced the estimates related to the amount of “in-kind” services that would be provided by Genzyme. This adjustment resulted in a decrease in revenues recognized by \$0.5 million during the three months ended September 30, 2016.

Research and Development Expense

Research and development expense increased by \$3.8 million from \$6.5 million for the three months ended September 30, 2015, to \$10.3 million for the three months ended September 30, 2016. The following table summarizes our research and development expenses, for the three months ended September 30, 2016 and September 30, 2015:

	Three Months Ended		
	September 30,		
	2016	2015	Change
	(in thousands)		
Process and platform development expenses	\$ 4,238	\$ 3,287	\$ 951
Employee and contractor related expenses	3,961	2,637	1,324
Facility and other expenses	1,597	541	1,056
License fees	513	16	497
Total research and development expenses	<u>\$ 10,309</u>	<u>\$ 6,481</u>	<u>\$ 3,828</u>

The increase in research and development expense for the three months ended September 30, 2016 was primarily attributable to the following:

- approximately \$1.3 million for increased employee compensation cost due to increases in headcount;
- approximately \$1.1 million for increases in facilities and other costs including rent, depreciation, maintenance and other expenses; and
- approximately \$0.8 million for increased costs of funding research performed by third parties that conduct research and development, preclinical and clinical activities, and manufacturing and production preparation activities on our behalf, and increased purchases of lab supplies and non-capital equipment used in designing, developing, and manufacturing preclinical study materials, and an additional expense of approximately \$0.2 million attributable to in-kind research and development services incurred by Genzyme and provided to us under the Genzyme Collaboration.

General and Administrative Expense

General and administrative expense increased by \$0.9 million from \$2.5 million for the three months ended September 30, 2015 to \$3.4 million for the three months ended September 30, 2016. The increase in general and administrative expense was primarily attributable to the following:

- approximately \$1.2 million increased employee compensation cost due to increases in headcount;
- approximately \$0.5 million related to the increases in legal fees; and

·offset by decreases of approximately \$0.6 million for IPO consulting expenses incurred during 2015.

Other Income (Expense)

Investment income of approximately \$1.1 million was recognized during the three months ended September 30, 2016 including \$0.8 million related mark-to-market gain recognized on the fair value of warrants to purchase equity securities, and higher interest income due to increased marketable securities balances resulting from our underwritten initial public offering in November 2015.

Comparison of the nine months ended September 30, 2016 and 2015

The following table summarizes our results of operations for the nine months ended September 30, 2016 and 2015, together with the changes in those items in dollars:

	Nine Months Ended September 30,		Change
	2016	2015	
	(in thousands)		
Collaboration revenue	\$ 11,858	\$ 12,397	\$ (539)
Operating expenses:			
Research and development	29,526	18,459	11,067
General and administrative	9,789	6,752	3,037
Total operating expenses	39,315	25,211	14,104
Other expense, net:			
Interest income (expense), net	2,069	175	1,894
Other expense, net	(435)	(9,750)	9,315
Total other expense, net	1,634	(9,575)	11,209
Loss before income taxes	(25,823)	(22,389)	(3,434)
Income tax benefit	303	—	303
Net loss	<u>\$ (25,520)</u>	<u>\$ (22,389)</u>	<u>\$ (3,131)</u>

Collaboration Revenue

Collaboration revenue was \$11.9 million and \$12.4 million for the nine months ended September 30, 2016 and September 30, 2015, respectively, all of which related to the Genzyme Collaboration in recognition of amounts allocated to research and development services for various programs under the Collaboration Agreement. The Collaboration Agreement was entered into in February 2015. During the second quarter of 2016, we reassessed the estimated period of performance for each of the units of accounting and determined that the estimated period would be extended for two units of accounting. This adjustment was made on a prospective basis and resulted in decreases in revenue recognized by \$1.2 million per quarter. During the third quarter of 2016, we reassessed and reduced the estimates related to the amount of “in-kind” services that would be provided by Genzyme. This adjustment resulted in a decrease in revenues recognized by \$0.5 million during the three months ended September 30, 2016.

Research and Development Expense

Research and development expense increased by \$11.0 million from \$18.5 million for the nine months ended September 30, 2015, to \$29.5 million for the nine months ended September 30, 2016. The following table summarizes our research and development expenses, for the nine months ended September 30, 2016 and September 30, 2015:

	Nine Months Ended		Change
	September 30,		
	2016	2015	
	(in thousands)		
Process and platform development expenses	\$ 14,200	\$ 10,161	\$ 4,039
Employee and contractor related expenses	11,162	6,750	4,412
Facility and other expenses	3,527	1,387	2,140
License fees	637	161	476
Total research and development expenses	\$ 29,526	\$ 18,459	\$ 11,067

The increase in research and development expense for the nine months ended September 30, 2016 was primarily attributable to the following:

- approximately \$4.4 million for higher employee compensation cost due to increases in headcount;
- approximately \$3.0 million for increased costs of funding research performed by third parties that conduct research and development, preclinical and clinical activities, and manufacturing and production preparation activities on our behalf, and increased purchases of lab supplies and non-capital equipment used in designing, developing, and manufacturing preclinical study materials, and an additional expense of approximately \$1.0 million attributable to in-kind research and development services incurred by Genzyme and provided to us under the Genzyme Collaboration; and
- approximately \$2.1 million for increases in facilities and other costs including rent, depreciation, maintenance and other expenses.

General and Administrative Expense

General and administrative expense increased by \$3.0 million from \$6.8 million for the nine months ended September 30, 2015 to \$9.8 million for the nine months ended September 30, 2016. The increase in general and administrative expense was primarily attributable to the following:

- approximately \$3.6 million related to increased employee compensation cost due to increases in headcount;
- approximately \$0.6 million related to the increase in legal fees
- approximately \$0.4 million related to the increases in facilities cost including rent, depreciation, and maintenance expenses;
- approximately \$0.3 million related to the increase in patent filing fees; and
- offset by decreases of approximately \$1.9 million for consulting expenses, primarily for IPO preparation related services, incurred during 2015.

Other Income (Expense)

Investment income of approximately \$1.6 million was recognized during the nine months ended September 30, 2016 including \$0.8 million related mark-to-market gain recognized on the fair value of warrants to purchase equity securities, and higher interest income due to increased marketable securities balances resulting from our underwritten initial public offering in November 2015. There was approximately \$0.2 million interest income during the nine months ended September 30, 2015.

Other expenses during the nine months ended September 30, 2015 of \$9.6 million consisted primarily of the re-measurement losses associated with the change in the fair value of the Series A Preferred Stock tranche rights for the Series A Preferred Stock. In February 2015, upon the issuance of the final tranche of Series A Preferred Stock, the tranche right liability was reclassified to Series A Preferred Stock and no further re-measurement gains or losses were recognized related to these tranche rights.

Liquidity and Capital Resources

Sources of Liquidity

Prior to our IPO, we had funded our operations primarily through proceeds from private placements of our redeemable convertible preferred stock and convertible promissory notes of \$135.0 million and proceeds associated with an up-front payment from the Genzyme Collaboration of \$65.0 million.

In November 2015 we closed our IPO whereby we sold 5,750,000 shares of common stock, at a public offering price of \$14.00 per share, including 750,000 shares of common stock issued upon the full exercise by the underwriters of their option to purchase additional shares, resulting in net proceeds to us of \$72.9 million after deducting underwriting discounts, commissions, and offering expenses.

As of September 30, 2016, we had cash, cash equivalents, and marketable debt securities of \$191.2 million.

Cash Flows

The following table provides information regarding our cash flows for the nine months ended September 30, 2016 and September 30, 2015:

	Nine Months Ended September 30,	
	2016	2015
	(in thousands)	
Net cash (used in) provided by:		
Operating activities	\$ (29,390)	\$ 50,856
Investing activities	61,442	(95,192)
Financing activities	146	103,834
Net increase in cash and cash equivalents	<u>\$ 32,198</u>	<u>\$ 59,498</u>

Net Cash (Used in) Provided by Operating Activities

Net cash used in operating activities was \$29.4 million during the nine months ended September 30, 2016 compared to \$50.9 million of cash provided by operating activities during the nine months ended September 30, 2015. The decrease in cash provided by operating activities during the nine months ended September 30, 2016 was due to the \$65.0 million upfront payment from Genzyme under the Collaboration Agreement in February 2015, and increases in cash used for increased operating expenses, adjusted for non-cash items. The increases in operating expenses are primarily due to increased research and development activities, as well as higher general and administrative expenses as a result of operating as a public company during the nine months ended September 30, 2016.

Net Cash Provided by (Used in) Investing Activities

Net cash provided by investing activities was \$61.4 million during the nine months ended September 30, 2016 compared to \$95.2 million of cash used in investing activities during the nine months ended September 30, 2015. The increase in cash provided by investing activities for the nine months ended September 30, 2016 was primarily due to proceeds from maturities of marketable securities of \$129.7 million, partially offset by \$66.6 million for purchases of marketable securities, and \$1.1 million for purchases of property and equipment. The cash used for investing activities for the nine months ended September 30, 2015 was primarily due to \$100.3 million for purchases of marketable securities and \$0.9 million for purchases of property and equipment, partially offset by \$6.0 million in proceeds from maturities of marketable securities.

Net Cash Provided by Financing Activities

Net cash provided by financing activities was \$0.1 million during the nine months ended September 30, 2016, primarily from proceeds of exercises of stock options. Net cash provided by financing activities was \$103.8 million during the nine months ended September 30, 2015 primarily due to the issuance of \$20.0 million of Series A Preferred Stock and \$90.0 million of Series B Preferred Stock, of which \$5.0 million in proceeds were in excess of the Series B Preferred Stock's fair value and were allocated to deferred revenue.

Funding Requirements

We expect our expenses to increase in connection with our ongoing activities, particularly as we continue the research and development of, continue or initiate clinical trials of, and seek marketing approval for, our product candidates. In addition, if we obtain marketing approval for any of our product candidates, we expect to incur significant commercialization expenses related to program sales, marketing, manufacturing, and distribution to the extent that such sales, marketing, and distribution are not the responsibility of potential collaborators. Furthermore, we expect to incur additional costs associated with operating as a public company during 2016 and future years. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on attractive terms, we would be forced to delay, reduce, or eliminate our research and development programs or future commercialization efforts.

Based upon our current operating plan, we expect our existing cash, cash equivalents, and marketable securities will enable us to fund our operating expenses and capital expenditure requirements into 2019. Our future capital requirements will depend on many factors, including:

- the scope, progress, results and costs of product discovery, preclinical studies, and clinical trials for our product candidates;
- the scope, prioritization and number of our research and development programs;
- the costs, timing, and outcome of regulatory review of our product candidates;
- our ability to establish and maintain collaborations on favorable terms, if at all;
- the achievement of milestones or occurrence of other developments that trigger payments under the Genzyme Collaboration and any other collaboration agreements we obtain;
- the ability of our collaboration partners to exercise options to extend research and development programs;
- the extent to which we are obligated to reimburse, or entitled to reimbursement of, clinical trial costs under collaboration agreements, if any;
- the costs of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights, and defending intellectual property-related claims;

- the extent to which we acquire or in-license other product candidates and technologies;
- the costs of securing manufacturing arrangements for commercial production; and
- the costs of establishing or contracting for sales and marketing capabilities if we obtain regulatory approvals to market our product candidates.

Identifying potential product candidates and conducting preclinical studies and clinical trials is a time-consuming, expensive, and uncertain process that takes many years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our commercial revenues, if any, will be derived from sales of gene therapies that we do not expect to be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all.

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances, and licensing arrangements. To the extent that we raise additional capital through the sale of equity or redeemable convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends.

If we raise funds through additional collaborations, strategic alliances, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs, or product candidates, or to grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds when needed, we may be required to delay, limit, reduce, or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

Contractual Obligations

In January 2016, we executed an amendment to extend the lease for 75 Sidney Street in Cambridge, Massachusetts to December 2024 and an agreement to lease an additional facility for approximately 26,000 square feet in Cambridge, Massachusetts. The additional facility will include laboratory and office space, and is projected to be ready for occupancy in early 2017. Estimated payments are approximately \$25.0 million, related to the amendment extending the 75 Sidney Street lease to December 2024 and the new lease for approximately 26,000 square feet in Cambridge, Massachusetts to December 2024.

	Total	Less Than 1 Year	1 to 3 Years	3 to 5 Years	More than 5 Years
Operating lease commitments ⁽¹⁾	\$ 30,083	\$ 298	\$ 6,501	\$ 7,144	\$ 16,140

(1) We lease office space at in Cambridge, Massachusetts under non-cancelable operating leases that expire in December 2024.

In addition to the above commitments, in September 2016 we committed to purchase \$1.0 million of the common stock of MRI Interventions, Inc., or MRIC, at MRIC's option upon the transfer of the manufacturing technology know how for the Clearpoint System to the alternate manufacturer.

Other than the above, there were no material changes to our contractual obligations and commitments described under Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the fiscal year ended December 31, 2015, as filed with the SEC on March 17, 2016.

Off-Balance Sheet Arrangements

We did not have, during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under applicable SEC rules.

JOBS Act

In April 2012, the JOBS Act, was enacted. Section 107 of the JOBS Act provides that an emerging growth company, or EGC, can take advantage of the extended transition period provided in Section 7(a)(2)(B) of the Securities Act of 1933, as amended, or the Securities Act, for complying with new or revised accounting standards. Thus, an EGC can delay the adoption of certain accounting standards until those standards would otherwise apply to private companies.

Subject to certain conditions, as an EGC, we intend to rely on certain of these exemptions, including without limitation, (i) providing an auditor's attestation report on our system of internal controls over financial reporting pursuant to Section 404(b) of the Sarbanes-Oxley Act and (ii) complying with any requirement that may be adopted by the Public Company Accounting Oversight Board, or PCAOB, regarding mandatory audit firm rotation or a supplement to the auditor's report providing additional information about the audit and the financial statements, known as the auditor discussion and analysis. We will remain an EGC until the earlier of (i) the last day of the fiscal year in which we have total annual gross revenues of \$1.0 billion or more; (ii) December 31, 2020; (iii) the date on which we have issued more than \$1.0 billion in nonconvertible debt during the previous three years; or (iv) the date on which we are deemed to be a large accelerated filer under the rules of the SEC.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risk related to changes in interest rates. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates, particularly because our investments, including cash equivalents, are in the form of money market fund and marketable securities and are invested in U.S. Treasury and U.S. government agency obligations.

We are not currently exposed to market risk related to changes in foreign currency exchange rates; however, we may contract with vendors that are located in Asia and Europe in the future and may be subject to fluctuations in foreign currency rates at that time.

Inflation generally affects us by increasing our cost of labor and clinical trial costs. We do not believe that inflation had a material effect on our business, financial condition or results of operations during the nine months ended September 30, 2015 and September 30, 2016, respectively.

ITEM 4. CONTROLS AND PROCEDURES

Management's Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures (as defined in Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act) that are designed to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

As of September 30, 2016, our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report. In designing and evaluating our disclosure controls and procedures, our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of September 30, 2016, our disclosure controls and procedures were effective at the reasonable assurance level in accomplishing the goals described above.

We continue to review and document our disclosure controls and procedures, including our internal controls and procedures for financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business.

Changes in Internal Control over Financial Reporting

During the three months ended September 30, 2016, there have been no changes in our internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15(d)-15(f) promulgated under the Exchange Act, 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

As of the date of this Quarterly Report on Form 10-Q, we were not party to any legal matters or claims. In the future, we may become party to legal matters and claims arising in the ordinary course of business, the resolution of which we do not anticipate would have a material adverse impact on our financial position, results of operations, or cash flows.

ITEM 1A. RISK FACTORS

An investment in shares of our common stock involves a high degree of risk. The risk factors below are the only ones that have changed materially since disclosed in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2015, filed with the SEC on March 17, 2016. You should carefully consider the risk factors below as well as the other risk factors included in our Annual Report on Form 10-K for the year ended December 31, 2015, filed with the SEC on March 17, 2016, together with the other information appearing elsewhere in this Quarterly Report on Form 10-Q, including our condensed consolidated financial statements and related notes hereto, before deciding to invest in our common stock. The occurrence of any of these risks could have a material adverse effect on our business, financial condition, results of operations and future growth prospects. In these circumstances, the market price of our common stock could decline, and you may lose all or part of your investment.

Risks Related to Our Financial Position and Need for Capital

We have incurred net losses since inception and anticipate that we will continue to incur losses for the foreseeable future and may never achieve or maintain profitability.

We are a clinical stage biotechnology company with a limited operating history, and have not yet generated revenues from the sales of our product candidates. Investment in biotechnology companies is highly speculative because it entails substantial upfront capital expenditures and significant risk that the product candidate will fail to obtain regulatory approval or become commercially viable. We have not yet demonstrated the ability to complete any clinical trials of our product candidates, obtain marketing approvals, manufacture a commercial-scale product or conduct sales and marketing activities necessary for successful commercialization. We continue to incur significant expenses related to research and development, and other operations in order to commercialize our product candidates. As a result, we are not and have never been profitable and have incurred losses since our inception. Our net loss was \$25.5 million and \$22.4 million for the nine months ended September 30, 2016 and September 30, 2015, respectively. As of September 30, 2016, we had an accumulated deficit of \$75.3 million.

Prior to our IPO, we financed our operations primarily through private placements of our redeemable convertible preferred stock and our collaboration agreement with Genzyme. In November 2015 we completed our IPO whereby we sold 5,750,000 shares of common stock, resulting in net proceeds to us of \$72.9 million. To date, we have devoted substantially all of our financial resources to building our product engine, selecting product programs, conducting research and development, including preclinical and clinical development of our product candidates, building our intellectual property portfolio, building our team, and establishing our collaboration with Genzyme. We expect that it could be several years, if ever, before we have a commercialized product candidate. We expect to continue to incur

significant expenses and increasing operating losses for the foreseeable future. The net losses we incur may fluctuate significantly from quarter to quarter. We anticipate that our expenses will increase substantially if, and as, we:

- continue investing in our product engine to optimize vector engineering, manufacturing, dosing, and delivery techniques;
- continue development of our clinical candidate, VY-AADC01;
- initiate additional preclinical studies and clinical trials for our other programs;
- continue our process research and development activities, as well as establish our research-grade and commercial manufacturing capabilities;
- identify additional CNS diseases for treatment with our AAV gene therapies;
- seek marketing approvals for VY-AADC01 or other product candidates that arise from our programs that successfully complete clinical trials;
- develop a sales, marketing, and distribution infrastructure to commercialize any product candidates for which we may obtain marketing approval;
- maintain, expand, and protect our intellectual property portfolio; and
- identify, acquire, or in-license other product candidates and technologies.

To become and remain profitable, we must develop and eventually commercialize product candidates with significant market potential, which will require us to be successful in a range of challenging activities. These activities can include completing preclinical studies and clinical trials of our product candidates, obtaining marketing approval for these product candidates, manufacturing, marketing, and selling those products that are approved and satisfying any post-marketing requirements. We may never succeed in any or all of these activities and, even if we do, we may never generate revenues that are significant or large enough to achieve profitability. If we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations. A decline in the value of our company also could cause you to lose all or part of your investment.

We will need to raise additional funding, which may not be available on acceptable terms, or at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate certain of our product development efforts or other operations.

We expect our expenses to increase in connection with our ongoing activities, particularly as we continue the research and development of, initiate further clinical trials of and seek marketing approval for, our product candidates. In addition, if we obtain marketing approval for any of our product candidates, we expect to incur significant expenses related to product sales, medical affairs, marketing, manufacturing and distribution. Given the completion of our IPO on November 16, 2015, we expect to incur additional costs associated with operating as a public company. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on acceptable terms, we would be forced to delay, reduce or eliminate certain of our research and development programs.

Our operations have consumed significant amounts of cash since inception. As of September 30, 2016, our cash, cash equivalents, and marketable debt securities were \$191.2 million. Based upon our current operating plan, we expect

that our existing cash, cash equivalents, and marketable securities, will enable us to fund our operating expenses and capital expenditure requirements into 2019.

Our future capital requirements will depend on many factors, including:

- the scope, progress, results, and costs of product discovery, preclinical studies, and clinical trials for our product candidates;
- the scope, prioritization, and number of our research and development programs;
- the costs, timing, and outcome of regulatory review of our product candidates;
- our ability to establish and maintain collaborations on favorable terms, if at all;
- the achievement of milestones or occurrence of other developments that trigger payments under the Genzyme Collaboration and any other collaboration agreements we obtain;
- the ability of our collaboration partners to exercise options to extend research and development programs;
- the extent to which we are obligated to reimburse, or entitled to reimbursement of, clinical trial costs under collaboration agreements, if any;
- the costs of preparing, filing, and prosecuting patent applications, maintaining and enforcing our intellectual property rights, and defending intellectual property-related claims;
- the extent to which we acquire or in-license other product candidates and technologies;
- the costs of securing manufacturing arrangements for commercial production; and
- the costs of establishing or contracting for sales and marketing capabilities if we obtain regulatory approvals to market our product candidates.

Identifying potential product candidates and conducting preclinical studies and clinical trials is a time-consuming, expensive, and uncertain process that takes years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our product revenues, if any, and any commercial milestones or royalty payments under our collaboration agreements, will be derived from or based on sales of products that may not be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. To the extent that additional capital is raised through the sale of equity or equity-linked securities, the issuance of those securities could result in substantial dilution for our current stockholders and the terms may include liquidation or other preferences that adversely affect the rights of our current stockholders. To the extent that additional capital is raised through the issuance of debt, the agreement governing such debt may contain restrictive covenants related to our capital raising and other financial and operational matters, which may make it more difficult for us to obtain additional capital and to pursue business operations, including potential acquisitions. Furthermore, the issuance of additional securities, whether equity or debt, by us, or the possibility of such issuance, may cause the market price of our common stock to decline and our existing stockholders may not agree with the terms of such financings. Adequate additional financing may not be available to us on acceptable terms, or at all.

The price of our common stock may be volatile and fluctuate substantially, which could result in substantial losses for purchasers of our common stock.

The price of our common stock is likely to be volatile and fluctuates substantially. From January 1, 2016 through September 30, 2016, the closing price of our common stock ranged from a high of \$21.15 to a low of \$8.56 on the NASDAQ Global Select Market. The stock market in general, and the market for biopharmaceutical companies in particular, has experienced extreme volatility that has often been unrelated to the operating performance of particular companies. The market price for our common stock may be influenced by many factors, including:

- regulatory action and results of clinical trials of our product candidates or those of our competitors;
- the success of competitive products or technologies;
- commencement or termination of collaborations;
- regulatory or legal developments in the United States and other countries;
- developments or disputes concerning patent applications, issued patents or other proprietary rights;
- the recruitment or departure of key personnel;
- the level of expenses related to any of our product candidates or clinical development programs;
- the results of our efforts to discover, develop, acquire or in-license additional product candidates;
- actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts;
- variations in our financial results or those of companies that are perceived to be similar to us;
- changes in the structure of healthcare payment systems;
- market conditions in the pharmaceutical and biotechnology sectors;
- general economic, industry and market conditions; and
- the other factors described in the section titled “Risk Factors” and elsewhere in this Quarterly Report on Form 10-Q.

If our quarterly operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially. We believe that quarterly comparisons of our financial results are not necessarily meaningful and should not be relied upon as an indication of our future performance.

In the past, following periods of volatility in the market price of a company’s securities, securities class-action litigation often has been instituted against that company. Such litigation, if instituted against us, could cause us to incur substantial costs to defend such claims and divert management’s attention and resources, which could seriously harm our business, financial condition, and results of operations.

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

Use of Proceeds from Initial Public Offering of Common Stock

On November 16, 2015 we closed our IPO whereby we sold 5,750,000 shares of common stock, at a public offering price of \$14.00 per share, including 750,000 shares of common stock issued upon the full exercise by the underwriters of their option to purchase additional shares, resulting in net proceeds to us of \$72.9 million after deducting underwriting discounts, commissions, and offering expenses paid by us. The underwriters were Cowen and Company, LLC, Piper Jaffray & Co., Wedbush Securities Inc. and Nomura Securities International, Inc.

We raised \$72.9 million in net proceeds after deducting underwriting discounts, commissions, and offering expenses paid by us. None of these expenses consisted of direct or indirect payments made by us to directors, officers, or persons owning 10% or more of our common stock or to their associates, or to our affiliates. There has been no material change in the planned use of proceeds from the IPO as described in our final prospectus filed with the SEC on November 12, 2015 pursuant to Rule 424(b)(4). We invested the funds received in cash equivalents and other short-term investments in accordance with our investment policy.

ITEM 6. EXHIBITS

The exhibits filed or furnished as part of this Quarterly Report are set forth on the Exhibit Index, which is incorporated herein by reference.

INDEX TO EXHIBITS

Exhibit No.	Description	Incorporated by Reference to:			
		Form or Schedule	Exhibit No.	Filing Date with SEC	SEC File Number
31.1	Certification of Chief Executive Officer pursuant to Exchange Act Rules 13a-14 or 15d-14.				
31.2	Certification of Chief Financial Officer pursuant to Exchange Act Rules 13a-14 or 15d-14.				
32.1+	Certification of Chief Executive Officer and Principal Chief Officer pursuant to Exchange Act Rules 13a-14(b) or 15d-14(b) and 18 U.S.C. Section 1350				
101.INS	XBRL Instance Document.				
101.SCH	XBRL Taxonomy Extension Schema Document.				
101.CAL	XBRL Taxonomy Extension Calculation Document.				
101.LAB	XBRL Taxonomy Extension Definition Linkbase Document.				
101.PRE	XBRL Taxonomy Extension Labels Linkbase Document.				
101.DEF	XBRL Taxonomy Extension Presentation Link Document.				

+ The certification furnished in Exhibit 32.1 hereto is deemed to be furnished with this Quarterly Report on Form 10-Q and will not be deemed to be “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, except to the extent that the Registrant specifically incorporates it by reference.

SIGNATURES

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

Date: November 10, 2016

VOYAGER THERAPEUTICS

By: /s/ Steven M. Paul, M.D.
Steven M. Paul, M.D.
President and Chief Executive Officer; Director
(Principal Executive Officer)

By: /s/ J. Jeffrey Goater
J. Jeffrey Goater
Chief Financial Officer
(Principal Financial and Accounting Officer)

Certification

I, Steven M. Paul, certify that:

1. I have reviewed this quarterly report on Form 10-Q for the period ended September 30, 2016 of Voyager Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. (Paragraph omitted pursuant to SEC Release Nos. 33-8238/34-47986 and 33-8392/34-49313);
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on 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 (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 10, 2016

/s/ Steven M. Paul

Steven M. Paul
President, Chief Executive Officer and Director
(Principal Executive Officer)

Certification

I, J. Jeffrey Goater, certify that:

1. I have reviewed this quarterly report on Form 10-Q for the period ended September 30, 2016 of Voyager Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. (Paragraph omitted pursuant to SEC Release Nos. 33-8238/34-47986 and 33-8392/34-49313);
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on 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 (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 10, 2016

/s/ J. Jeffrey Goater

J. Jeffrey Goater
Chief Financial Officer
(Principal Financial Officer)

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

In connection with the quarterly report on Form 10-Q of Voyager Therapeutics, Inc. (the "Company") for the period ended September 30, 2016, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 that to his or her knowledge:

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

Date: November 10, 2016

/s/ Steven M. Paul

Steven M. Paul
President and Chief Executive Officer
(Principal Executive Officer)

Date: November 10, 2016

/s/ J. Jeffrey Goater

J. Jeffrey Goater
Chief Financial Officer
(Principal Financial Officer)
