
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 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 June 30, 2016

OR

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

For the transition period from _____ to _____

Commission File Number: 001-37519

AIMMUNE THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

45-2748244
(I.R.S. Employer
Identification No.)

8000 Marina Blvd., Suite 300
Brisbane, California 94005
(Address of principal executive offices including zip code)

Registrant's telephone number, including area code: (650) 614-5220

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	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/> (do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>

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

As of July 31, 2016, the registrant had 42,254,366 shares of common stock, \$0.0001 par value per share, outstanding.

AIMMUNE THERAPEUTICS, INC.

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PART I. – FINANCIAL INFORMATION

Item 1. Financial Statements

AIMMUNE THERAPEUTICS, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS
(In thousands, except per share amounts)

	<u>June 30,</u> <u>2016</u>	<u>December 31,</u> <u>2015</u>
	(unaudited)	Note 1
Assets		
Current assets:		
Cash and cash equivalents	\$ 74,430	\$ 76,677
Short-term investments	94,538	115,158
Prepaid expenses and other current assets	<u>3,782</u>	<u>5,622</u>
Total current assets	172,750	197,457
Long-term investments	2,804	7,992
Property and equipment, net	7,032	2,702
Prepaid expenses and other assets	<u>3,110</u>	<u>4,210</u>
Total assets	<u>\$ 185,696</u>	<u>\$ 212,361</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 1,261	\$ 1,863
Accrued liabilities	4,433	3,118
Other current liabilities	<u>150</u>	<u>117</u>
Total current liabilities	5,844	5,098
Other liabilities	<u>1,323</u>	<u>1,012</u>
Total liabilities	7,167	6,110
Commitments and contingencies (Note 5)		
Stockholders' equity:		
Common stock, par value \$0.0001 per share—290,000 shares authorized as of June 30, 2016, and December 31, 2015; 42,304 and 42,239 shares issued and outstanding as of June 30, 2016, and December 31, 2015, respectively (including 415 and 599 shares subject to repurchase, legally issued and outstanding as of June 30, 2016, and December 31, 2015, respectively)	4	4
Additional paid-in capital	265,489	259,668
Accumulated other comprehensive income (loss)	31	(88)
Accumulated deficit	<u>(86,995)</u>	<u>(53,333)</u>
Total stockholders' equity	<u>178,529</u>	<u>206,251</u>
Total liabilities and stockholders' equity	<u>\$ 185,696</u>	<u>\$ 212,361</u>

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

AIMMUNE THERAPEUTICS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS
(In thousands, except per share amounts)
(Unaudited)

	<u>Quarter Ended June 30,</u>		<u>Six Months Ended June 30,</u>	
	<u>2016</u>	<u>2015</u>	<u>2016</u>	<u>2015</u>
Operating expenses				
Research and development	\$ 11,820	\$ 3,131	\$ 21,796	\$ 5,200
General and administrative	6,466	4,246	12,189	5,618
Total operating expenses	<u>18,286</u>	<u>7,377</u>	<u>33,985</u>	<u>10,818</u>
Loss from operations	(18,286)	(7,377)	(33,985)	(10,818)
Interest income	231	1	446	1
Interest expense	(25)	—	(49)	—
Other expense	(59)	—	(74)	—
Net loss	<u>\$ (18,139)</u>	<u>\$ (7,376)</u>	<u>\$ (33,662)</u>	<u>\$ (10,817)</u>
Other comprehensive loss, net of tax:				
Unrealized gains on investments	25	—	119	—
Comprehensive loss	<u>\$ (18,114)</u>	<u>\$ (7,376)</u>	<u>\$ (33,543)</u>	<u>\$ (10,817)</u>
Net loss per common share, basic and diluted	<u>\$ (0.43)</u>	<u>\$ (1.60)</u>	<u>\$ (0.81)</u>	<u>\$ (2.45)</u>
Weighted average shares used in computing net loss per common share, basic and diluted	41,800	4,619	41,678	4,423

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

AIMMUNE THERAPEUTICS, INC.
CONDENSED CONSOLIDATED STATEMENT OF CASH FLOWS
(In thousands)
(Unaudited)

	Six Months Ended June 30,	
	2016	2015
Cash flows from operating activities:		
Net loss	\$ (33,662)	\$ (10,817)
Adjustments to reconcile net loss to net cash used in operating activities		
Depreciation expense	257	30
Stock-based compensation expense	5,605	989
Investment premium amortization, net	526	—
Changes in operating assets and liabilities:		
Prepaid expenses	3,097	(563)
Other assets	(129)	(85)
Accounts payable	(645)	(169)
Accrued liabilities	1,314	1,537
Other liabilities	317	284
Net cash used in operating activities	<u>(23,320)</u>	<u>(8,794)</u>
Cash flows from investing activities:		
Purchase of property and equipment	(4,544)	(596)
Purchase of investments	(81,290)	—
Maturities of investments	106,691	—
Change in restricted cash	—	(60)
Net cash provided by (used in) investing activities	<u>20,857</u>	<u>(656)</u>
Cash flows from financing activities:		
Net proceeds from issuance of Series B convertible preferred stock, net of issuance costs	—	79,779
Repurchase of Series A convertible preferred stock	—	(12,874)
Net cash proceeds from exercise of stock options, including early exercise	216	214
Offering costs incurred for initial public offering	—	(1,436)
Net cash provided by financing activities	<u>216</u>	<u>65,683</u>
Net increase (decrease) in cash and cash equivalents	(2,247)	56,233
Cash and cash equivalents at the beginning of the period	76,677	2,269
Cash and cash equivalents at the end of the period	<u>\$ 74,430</u>	<u>\$ 58,502</u>
Supplemental schedule of non-cash investing and financing activities		
Capital expenditures funded through long term lease obligation	\$ —	\$ 600

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

AIMMUNE THERAPEUTICS, INC.
NOTES TO UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
June 30, 2016
(Unaudited)

1. Formation and Business of the Company

Aimmune Therapeutics, Inc., or the Company, formerly known as Allergen Research Corporation, is a clinical-stage biopharmaceutical company advancing a new therapeutic approach, including the development of proprietary product candidates, for the treatment of peanut and other food allergies. Our therapeutic approach, which we refer to as Characterized Oral Desensitization Immunotherapy, or CODIT™, is a system designed to desensitize patients to food allergens using rigorously characterized biologic products, defined treatment protocols and tailored support services. We are headquartered in Brisbane, California, and were incorporated in the state of Delaware on June 24, 2011.

Since inception, we have incurred net losses and negative cash flows from operations. During the six months ended June 30, 2016, we incurred a net loss of \$33.7 million and used \$23.3 million of cash in operations. As of June 30, 2016, we had an accumulated deficit of \$87.0 million, and we do not expect to experience positive cash flows in our near future. We have financed our operations to date primarily through private placements of equity securities and an initial public offering, or IPO, of common stock in August 2015. Our ability to continue to meet our obligations and to achieve our business objectives is dependent upon a number of factors, which include raising additional capital, obtaining U.S. Food and Drug Administration, or FDA, and European Medicines Agency, or EMA, approval and commercializing in the United States and Europe, generating sufficient revenue, and our ability to continue to control expenses, if necessary, to meet our obligations as they become due for the foreseeable future. Failure to obtain FDA and EMA approval, commercialize our lead product candidate, manage discretionary expenditures, or raise additional financing, as required, may adversely impact our ability to achieve our intended business objectives.

2. Summary of Significant Accounting Policies

Basis of Preparation

The accompanying condensed consolidated financial statements have been prepared in accordance with Generally Accepted Accounting Principles, or GAAP, in the United States and applicable rules and regulations of the Securities and Exchange Commission, or SEC, regarding interim financial reporting. As permitted under those rules, certain footnotes or other financial information that are normally required by U.S. GAAP have been condensed or omitted, and accordingly the balance sheet as of December 31, 2015, has been derived from audited consolidated financial statements at that date but does not include all of the information required by U.S. GAAP for complete financial statements. These condensed consolidated financial statements have been prepared on the same basis as our annual financial statements and, in the opinion of management, reflect all adjustments (consisting only of normal recurring adjustments) that are necessary for a fair presentation of our financial information. The results of operations for the quarter and six months ended June 30, 2016, are not necessarily indicative of the results to be expected for the year ending December 31, 2016, or for any other interim period or for any other future year. We operate in one reportable segment.

The accompanying condensed consolidated financial statements and related financial information should be read in conjunction with the audited consolidated financial statements and the related notes thereto for the year ended December 31, 2015, included in our Annual Report on Form 10-K filed with the SEC.

Basis of Consolidation

The accompanying condensed consolidated financial statements include the accounts of our wholly-owned subsidiaries. All significant intercompany transactions have been eliminated.

Use of Estimates

The preparation of the accompanying condensed consolidated financial statements in accordance with U.S. GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements, and the reported amounts of costs and expenses during the reporting period. We base our estimates and assumptions on historical experience when available and on various factors that we believe to be reasonable under the circumstances. We evaluate our estimates and assumptions on an ongoing basis. Our actual results could differ from these estimates under different assumptions or conditions.

Initial Public Offering

On August 5, 2015, our registration statement on Form S-1 (File No. 333-205501) relating to the IPO of our common stock became effective. The IPO closed on August 11, 2015, at which time we issued 11,499,999 shares of our common stock at a price of \$16.00 per share, which included 1,499,999 shares sold pursuant to the exercise of the underwriters' option to purchase additional shares. We received proceeds of \$168.1 million, net of underwriting discounts and commissions and offering expenses. In addition, upon our IPO, all outstanding shares of convertible preferred stock converted by their terms into 25.1 million shares of common stock. As of June 30, 2016, we had 42,303,824 shares of common stock outstanding. In conjunction with our IPO, we filed our amended and restated certificate of incorporation that authorized 290,000,000 shares of common stock, \$0.0001 par value per share, and 10,000,000 shares of preferred stock, \$0.0001 par value per share.

Stock Split

On July 30, 2015, we effected a 1-for-1.317 stock split of our common stock and convertible preferred stock. The par value of the authorized stock was not adjusted as a result of the stock split. In addition, we increased the number of authorized shares of common stock to 55,051,264 and the number of authorized shares of preferred stock to 25,051,264. All issued and outstanding common stock, convertible preferred stock, stock options and per share amounts contained in the accompanying condensed consolidated financial statements and the accompanying notes have been retroactively adjusted to give effect to the stock split for all periods presented.

Significant Accounting Policies

There have been no significant changes to the accounting policies during the quarter and six months ended June 30, 2016, as compared to the significant accounting policies described in Note 2 of the "Notes to Financial Statements" in our audited consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2015.

Recent Accounting Pronouncements

In August 2014, the FASB issued Accounting Standards Update, or ASU, No. 2014-15, *Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern*. ASU 2014-15 requires management to evaluate whether there is substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. In doing so, companies will have reduced diversity in the timing and content of footnote disclosures than under today's guidance. ASU 2014-15 will be effective for annual periods ending after December 15, 2016, with early adoption permitted. We do not currently believe the impact of adopting ASU 2014-15 on our consolidated financial statements will be material.

In February 2016, the Financial Accounting Standards Board, or FASB, issued ASU No. 2016-02, *Leases (Topic 842)*. The new standard requires lessees to apply a dual approach, classifying leases as either finance or operating leases based on the principle of whether or not the lease is effectively a financed purchase by the lessee. This classification will determine whether lease expense is recognized based on an effective interest method or on a straight-line basis over the term of the lease. A lessee is also required to record a right-of-use asset and a lease liability for all leases with a term of greater than 12 months regardless of their classification. Leases with a term of 12 months or less will be accounted for similar to existing guidance for operating leases. The standard is effective for interim and annual periods beginning after December 15, 2018, with early adoption permitted. The new standard is expected to impact our consolidated financial statements as we have certain operating lease arrangements for which we are the lessee. We are currently evaluating the impact the adoption of this new standard will have on our consolidated financial statements.

In March 2016, the FASB issued ASU No. 2016-09, *Compensation—Stock Compensation (Topic 718) Improvements to Employee Share-Based Payment Accounting*, which simplifies several aspects of accounting for share-based payment transactions including the income tax consequences, classification of awards as either equity or liabilities, classification on the statement of cash flows and accounting for forfeitures. The new standard is effective for fiscal years beginning after December 15, 2016, and interim periods within those fiscal years with early adoption permitted. We are currently evaluating the impact that the adoption of this new standard will have on our consolidated financial statements.

3. Available-for-Sale Securities and Fair Value Measurements

We define fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

Our valuation techniques are based on observable and unobservable inputs. Observable inputs reflect readily obtainable data from independent sources, while unobservable inputs reflect our market assumptions. We classify these inputs into the following hierarchy:

- Level 1—Inputs are unadjusted, quoted prices in active markets for identical assets or liabilities at the measurement date;
- Level 2—Inputs are observable, unadjusted quoted prices in active markets for similar assets or liabilities, unadjusted quoted prices for identical or similar assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and
- Level 3—Unobservable inputs that are significant to the measurement of the fair value of the assets or liabilities that are supported by little or no market data.

The following table sets forth our financial instruments that were measured at fair value on a recurring basis by level within the fair value hierarchy (in thousands):

	June 30, 2016			
	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Cash and cash equivalents:				
Cash and money market funds	\$ 62,636	\$ —	\$ —	\$ 62,636
Commercial paper	—	11,794	—	11,794
Total cash and cash equivalents	<u>\$ 62,636</u>	<u>\$ 11,794</u>	<u>\$ —</u>	<u>\$ 74,430</u>
Investments				
Agency securities	\$ —	40,547	\$ —	\$ 40,547
Corporate securities	—	26,228	—	26,228
Commercial paper	—	18,524	—	18,524
U.S. government securities	—	12,043	—	12,043
Total investments	<u>\$ —</u>	<u>\$ 97,342</u>	<u>\$ —</u>	<u>\$ 97,342</u>
December 31, 2015				
	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Cash and cash equivalents:				
Cash and money market funds	\$ 61,477	\$ —	\$ —	\$ 61,477
Agency securities	—	9,701	—	9,701
Corporate securities	—	2,000	—	2,000
Commercial paper	—	3,499	—	3,499
Total cash and cash equivalents	<u>\$ 61,477</u>	<u>\$ 15,200</u>	<u>\$ —</u>	<u>\$ 76,677</u>
Investments				
Certificates of deposit	\$ 100	\$ —	\$ —	\$ 100
Agency securities	—	43,325	—	43,325
Corporate securities	—	49,596	—	49,596
Commercial paper	—	17,843	—	17,843
U.S. government securities	—	12,286	—	12,286
Total investments	<u>\$ 100</u>	<u>\$ 123,050</u>	<u>\$ —</u>	<u>\$ 123,150</u>

Our valuation techniques used to measure the fair value of money market funds were derived from quoted prices in active markets for identical assets. The valuation techniques used to measure the fair value of investments, all of which have counterparties with high credit ratings, were valued based on quoted market prices or model-driven valuations using significant inputs derived from or corroborated by observable market data. Investments are carried at fair value. During the quarter and six months ended June 30, 2016, there were no transfers between Level 1 and Level 2 of the fair value hierarchy.

The aggregate market value, cost basis, and gross unrealized gains and losses of available-for-sale investments by security type, classified in cash equivalents and investments, are as follows (in thousands):

	June 30, 2016			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Total Fair Value
Agency securities	\$ 40,529	\$ 20	\$ (2)	\$ 40,547
Corporate securities	26,226	4	(2)	26,228
Commercial paper	30,318	—	—	30,318
U.S. government securities	12,030	13	—	12,043
Total available-for-sale investments	<u>\$ 109,103</u>	<u>\$ 37</u>	<u>\$ (4)</u>	<u>\$ 109,136</u>

	December 31, 2015			
	Amortized Cost	Gross unrealized gains	Gross unrealized losses	Total fair value
Agency securities	\$ 53,062	\$ 2	\$ (38)	\$ 53,026
Corporate securities	51,626	28	(58)	51,596
Commercial paper	21,342	—	—	21,342
U.S. government securities	12,308	—	(22)	12,286
Total available-for-sale investments	<u>\$ 138,338</u>	<u>\$ 30</u>	<u>\$ (118)</u>	<u>\$ 138,250</u>

At June 30, 2016, all of the available-for-sale securities have contractual maturities within two years. We periodically review our available-for-sale investments for other-than-temporary impairment loss. We consider factors such as the duration, severity and the reason for the decline in value, the potential recovery period and our intent to sell. For debt securities, we also consider whether (i) it is more likely than not that we will be required to sell the debt securities before recovery of their amortized cost basis, and (ii) the amortized cost basis cannot be recovered as a result of credit losses. During the quarter and six months ended June 30, 2016, we did not recognize any other-than-temporary impairment loss. All marketable securities with unrealized losses have been in a loss position for less than twelve months.

4. Balance Sheet Components

Property and Equipment, Net

Property and equipment, net consists of the following (in thousands):

	June 30, 2016	December 31, 2015
Furniture and equipment	\$ 777	\$ 220
Computer equipment	813	324
Manufacturing equipment	499	458
Construction in progress	5,353	1,853
Property and equipment	7,442	2,855
Less: accumulated depreciation	(410)	(153)
Property and equipment, net	<u>\$ 7,032</u>	<u>\$ 2,702</u>

Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

	June 30, 2016	December 31, 2015
Compensation and benefits	\$ 2,076	\$ 1,645
Research and development	1,629	972
Professional and consulting	536	381
Other	192	120
Total accrued liabilities	<u>\$ 4,433</u>	<u>\$ 3,118</u>

5. Commitments and Contingencies

Indemnifications

We indemnify each of our officers and directors for certain events or occurrences, subject to certain limits, while the officer or director is or was serving at the Company's request in such capacity, as permitted under Delaware law and in accordance with its certificate of incorporation and bylaws. The term of the indemnification period lasts as long as an officer or a director may be subject to any proceeding arising out of acts or omissions of such officer or director in such capacity. The maximum amount of potential future indemnification is unlimited; however, we currently hold director and officer liability insurance. This insurance allows the transfer of risk associated with our exposure and may enable us to recover a portion of any future amounts paid. We believe that the fair value of these indemnification obligations is minimal. Accordingly, we have not recognized any liabilities relating to these obligations for any period.

Legal

We are currently not a party to any material legal proceedings. During the normal course of business, we may be a party to legal claims that may not be covered by insurance. We do not believe that any such claims would have a material impact on our consolidated financial statements.

6. Stock-Based Compensation

Equity Incentive Plan

In January 2013, we adopted our Stock Plan (the "2013 Plan") and in July 2015, we adopted a new Stock Plan (the "2015 Plan"). Upon consummation of our IPO, the 2013 Plan was terminated and no further shares are reserved for issuance under the 2013 Plan. As of June 30, 2016, there were 4.3 million shares reserved for future issuance under the 2015 Plan. As of June 30, 2016, there were 4.1 million shares subject to outstanding options under the 2013 Plan.

The 2013 Plan allowed employees to exercise stock options in exchange for cash before the requisite service was provided (e.g., before the award is vested under its original terms); however, such arrangements permit us to subsequently repurchase such shares at the exercise price if the vesting conditions are not satisfied. Such an exercise is not substantive for accounting purposes. Therefore, the payment received by us for the exercise price is recognized as an early exercise liability on the consolidated balance sheets and will be transferred to common stock and additional paid-in capital as such shares vest. As of June 30, 2016, and December 31, 2015, 415,171 and 599,242 unvested shares were legally issued and outstanding, respectively. In connection with these unvested shares, we have recorded an early exercise liability as of June 30, 2016, of \$144,000, of which \$127,000 is included in other current liabilities and \$17,000 is included in other non-current liabilities in the condensed consolidated balance sheet. These shares are excluded from basic and diluted net loss per share until our repurchase right lapses and the shares are no longer subject to the repurchase feature.

Option activity under the 2015 Plan and 2013 Plan is set forth below:

	Options Outstanding			
	Number of Options and Unvested Shares	Weighted- Average Exercise Price	Weighted Average Remaining Contractual Life (in years)	Aggregate Intrinsic Value (in thousands)
Balance, December 31, 2015	4,814,892	\$ 5.20	9.23	64,211
Options granted	1,997,775	\$ 15.57		
Options exercised and shares vested	(248,994)	\$ 0.86		
Options cancelled and retired	(65,850)	\$ 0.14		
Options cancelled	(141,565)	\$ 7.11		
Balance, June 30, 2016	6,356,258	\$ 8.64	9.05	\$ 13,845
Options vested and expected to vest as of June 30, 2016	6,068,919	\$ 8.53	8.89	\$ 13,882
Options exercisable as of June 30, 2016	4,106,567	\$ 4.66	9.00	\$ 25,290

The aggregate intrinsic values of options outstanding, exercisable, and vested and expected to vest were calculated as the difference between the exercise price of the options and the market price for shares of our common stock as of June 30, 2016. The 2013 Plan provided for early exercise, therefore, all our outstanding stock options issued under that plan are exercisable.

As of June 30, 2016 and 2015, there was \$35.0 million and \$5.7 million of unrecognized stock-based compensation expense related to stock options, which is expected to be recognized over the weighted-average remaining vesting period of 3.1 years and 3.6 years, respectively.

Restricted stock unit, or RSU, activity under the 2015 Plan is set forth below:

	Shares	Weighted Average Grant Date Fair Value
Unvested Balance, December 31, 2015	—	\$ —
Granted	17,000	14.01
Forfeited	—	—
Vested	—	—
Unvested Balance, June 30, 2016	<u>17,000</u>	<u>\$ 14.01</u>

RSUs are measured based on the fair market value of the underlying stock on the date of grant and recognized as expense on a straight-line basis over the employee's requisite service period (generally the vesting period). As of June 30, 2016, there was \$0.2 million of unrecognized compensation expense related to unvested RSUs, which is expected to be recognized over a weighted-average period of 0.7 years.

Valuation Assumptions

The weighted-average assumptions used to estimate the fair value of stock options using the Black-Scholes option valuation model and the resulting weighted average fair value of stock options granted were as follows:

	Quarter Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Expected term (in years)	6.0	6.0	6.0	6.0
Expected volatility	74.6%	75.8%	74.4%	75.8%
Risk free interest rate	1.4%	1.7%	1.8%	1.7%
Dividend yield	—%	—%	—	—%
Weighted average estimated fair value	\$ 8.50	\$ 3.64	\$ 10.24	\$ 3.64

Stock-Based Compensation Expense

Stock-based compensation expense, net of estimated forfeitures, reflected in the statements of operations and comprehensive loss is as follows (in thousands):

	Quarter Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Research and development	\$ 1,272	\$ 88	\$ 2,217	\$ 96
General and administrative	1,802	875	3,388	893
Total stock-based compensation expense	<u>\$ 3,074</u>	<u>\$ 963</u>	<u>\$ 5,605</u>	<u>\$ 989</u>

During the quarters ended June 30, 2016 and 2015, we recorded \$0.1 million and \$0.6 million, respectively, of stock-based compensation expense related to the acceleration of vesting of certain former executives' stock options.

7. Net Loss per Share

Basic net loss per share is calculated based on the weighted-average number of common shares outstanding during the periods presented. For periods in which we have generated a net loss, basic and diluted net loss per share are the same due to the requirement to exclude potentially dilutive securities, consisting of common shares underlying outstanding stock options and restricted stock units, which would have an anti-dilutive effect on net loss per share.

The following common stock equivalents were excluded from the computation of diluted net loss per share for the periods presented because their inclusion would have been antidilutive:

	<u>Quarter Ended June 30,</u>		<u>Six Months Ended June 30,</u>	
	<u>2016</u>	<u>2015</u>	<u>2016</u>	<u>2015</u>
Convertible preferred stock	—	25,051,257	—	21,713,994
Stock options and restricted stock units	6,373,258	1,942,218	6,373,258	3,672,867

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

You should read the following discussion and analysis of our financial condition and results of operations in conjunction with our unaudited condensed consolidated financial statements and related notes included in Part I, Item 1 of this Quarterly Report on Form 10-Q and with our audited financial statements and related notes thereto for the year ended December 31, 2015, included in our Annual Report on Form 10-K for the year ended December 31, 2015, filed with the Securities and Exchange Commission on March 3, 2016. This discussion and other parts of this report contain forward-looking statements that involve risks and uncertainties, such as statements of our plans, objectives, expectations and intentions. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in the section of this report titled "Risk Factors." Except as may be required by law, we assume no obligation to update these forward-looking statements or the reasons that results could differ from these forward-looking statements.

Overview

We are a clinical-stage biopharmaceutical company advancing a new therapeutic approach, including the development of proprietary product candidates, for the treatment of peanut and other food allergies. Our therapeutic approach, which we refer to as Characterized Oral Desensitization Immunotherapy, or CODIT™, is a system designed to desensitize patients to food allergens using rigorously characterized biologic products, defined treatment protocols and tailored support services. In our Phase 2 studies of our lead CODIT product candidate, AR101, 43 of the 44 patients who completed the AR101 treatment regimen were desensitized to a clinically meaningful level of peanut protein of at least 443 mg, a level that substantially exceeds the amount of peanut protein typically encountered in an accidental exposure. We initiated PALISADE (Peanut Allergy Oral Immunotherapy Study of AR101 for Desensitization in Children and Adults), our pivotal Phase 3 trial of AR101, in December 2015 and anticipate completing the study in the second half of 2017. AR101 has been granted Fast Track designation and Breakthrough Therapy designation in children and adolescents (ages 4 to 17) by the U.S. Food and Drug Administration, or FDA, and, if our clinical development plan is successfully completed, we intend to file a Biologics License Application, or BLA, with the FDA and a Marketing Authorization Application, or MAA, with the European Medicines Agency, or EMA. We have worldwide commercial rights to all of our product candidates and, if approved, currently intend to commercialize in the United States and Europe with our own specialty sales force.

Since commencing our operations in 2011, substantially all of our efforts have been focused on research, development and the advancement of our lead CODIT product candidate, AR101. We have not generated any revenue from product sales and, as a result, we have incurred significant losses. We incurred a net loss of \$33.7 million and used \$23.3 million of cash in operations for the six months ended June 30, 2016. As of June 30, 2016, our accumulated deficit was \$87.0 million. We expect to continue to incur losses for the foreseeable future, and we anticipate these losses will increase as we continue our development of, seek regulatory approval for, and begin to commercialize AR101, and as we develop other product candidates.

As a result of our Breakthrough Therapy designation for AR101, we are provided more frequent communications with the FDA regarding the clinical development plan for AR101. These communications cover various aspects of the AR101 clinical development plan, including the size of the safety database required for an initial approval, the number of clinical trial subjects required for an initial approval in certain subgroups, and whether, based on our current clinical development plan, we will be required to conduct additional clinical trials prior to filing a BLA. Any additional clinical development requirements from the FDA could increase the costs of our clinical development program for AR101 and potentially delay our BLA submission timeline. In addition, we do not expect to generate revenue from product sales unless and until we successfully complete development of, obtain regulatory approval for, and begin to commercialize one or more of our product candidates, which we expect will take a number of years and is subject to significant uncertainty. Accordingly, we anticipate that we will need to raise additional capital to fund our future operations. Until such time that we can generate substantial revenue from product sales, if ever, we expect to finance our operating activities through a combination of equity offerings and debt financings, and we may seek to raise additional capital through strategic collaborations. However, we may be unable to raise additional funds or enter into such arrangements when needed on favorable terms, or at all, which would have a negative impact on our financial condition and could force us to delay, limit, reduce or terminate our development programs or commercialization efforts, or grant to others rights to develop or market product candidates that we would otherwise prefer to develop and market ourselves. Failure to receive additional funding could cause us to cease operations, in part or in full. Furthermore, even if we believe we have sufficient funds for our current or future operating plans, we may seek additional capital due to favorable market conditions or strategic considerations.

We currently utilize contract manufacturers for all of our manufacturing activities. In June 2015, we entered into a lease for a manufacturing facility in Clearwater, Florida, but do not expect manufacturing operations by our contract manufacturer to commence at that facility until early 2017. Additionally, we currently utilize third-party clinical research organizations, or CROs, to carry out our clinical trials, and we do not yet have a sales organization. We expect to significantly increase our investment in costs relating to our

manufacturing process and sales organization as we prepare for the filing of a BLA with the FDA and a MAA with the EMA and prepare for a possible commercial launch of AR101.

Critical Accounting Policies and Estimates

Management's discussion and analysis of our financial condition and results of operations is based on our condensed consolidated financial statements, which have been prepared in accordance with U.S. Generally Accepted Accounting Principles, or GAAP. The preparation of these condensed consolidated financial statements requires us to make estimates and assumptions for the reported amounts of assets, liabilities, revenue, expenses and related disclosures. Our estimates are based on our 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 may differ from these estimates under different assumptions or conditions and any such differences may be material.

There have been no new policies or significant changes to our critical accounting policies as disclosed in the critical accounting policies described in our Annual Report on Form 10-K for the year ended December 31, 2015.

Recent Accounting Pronouncements

In August 2014, the FASB issued ASU No. 2014-15, *Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern*. ASU 2014-15 requires management to evaluate whether there is substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. In doing so, companies will have reduced diversity in the timing and content of footnote disclosures than under today's guidance. ASU 2014-15 will be effective for annual periods ending after December 15, 2016, with early adoption permitted. We do not currently believe the impact of adopting ASU 2014-15 on our consolidated financial statements will be material.

In February 2016, the Financial Accounting Standards Board, or FASB, issued Accounting Standards Update, or ASU, No. 2016-02, *Leases (Topic 842)*. The new standard requires lessees to apply a dual approach, classifying leases as either finance or operating leases based on the principle of whether or not the lease is effectively a financed purchase by the lessee. This classification will determine whether lease expense is recognized based on an effective interest method or on a straight-line basis over the term of the lease. A lessee is also required to record a right-of-use asset and a lease liability for all leases with a term of greater than 12 months regardless of their classification. Leases with a term of 12 months or less will be accounted for similar to existing guidance for operating leases. The standard is effective for interim and annual periods beginning after December 15, 2018, with early adoption permitted. The new standard is expected to impact our consolidated financial statements as we have certain operating lease arrangements for which we are the lessee. We are currently evaluating the impact the adoption of this new standard will have on our consolidated financial statements.

In March 2016, the FASB issued ASU No. 2016-09, *Improvements to Employee Share-Based Payment Accounting*, which simplifies several aspects of accounting for share-based payment transactions including the income tax consequences, classification of awards as either equity or liabilities, classification on the statement of cash flows and accounting for forfeitures. The new standard is effective for fiscal years beginning after December 15, 2016, and interim periods within those fiscal years with early adoption permitted. We are currently evaluating the impact that the adoption of this new standard will have on our consolidated financial statements.

Components of Results of Operations

Research and Development Expenses

The largest component of our total operating expenses has historically been our investment in research and development activities. Research and development expenses consist primarily of external-related expenses, employee-related expenses, stock-based compensation expense, and facilities and other costs, which include the following:

- External-related expenses include: costs incurred to conduct research, such as the discovery and development of our product candidates; costs related to the production of clinical supplies, including fees paid to contract manufacturers; fees paid to consultants and vendors, including clinical research organizations in conjunction with implementing and monitoring our clinical trials and acquiring and evaluating clinical trial data, including all related fees, such as for investigator grants, patient screening fees, laboratory work and statistical compilation and analysis; costs for scientific conferences and meetings; and costs related to compliance with drug development regulatory requirements.
- Employee-related costs include salaries, bonuses, severance and benefits for personnel in our research and development functions.

- Stock-based compensation expense is expense associated with our equity plans for awards to personnel in our research and development functions.
- Facilities and other costs include facilities-related rent, depreciation and other allocable expenses, which include general and administrative support functions and general supplies for our research and development activities.

We recognize all research and development expenses as they are incurred. Clinical trial, contract manufacturing and other development costs incurred by third parties are expensed as the contracted work is performed.

General and Administrative Expenses

General and administrative expenses include employee-related costs, stock-based compensation expense, external professional services expenses, and facilities and other costs. Employee-related costs include salaries, bonuses, severance and benefits for personnel in our general and administrative functions. Stock-based compensation expense is expense associated with our equity plans for awards to personnel in our general and administrative functions. External professional services expenses consist of legal, accounting, and audit services and other consulting fees. Facilities and other costs consist of facilities-related rent, depreciation, and other allocable expenses, which include general and administrative support functions, general supplies and insurance costs.

Results of Operations

Comparison of the Quarters Ended June 30, 2016 and 2015

	Quarter Ended June 30,		\$ Change
	2016	2015	
	(In thousands)		
Operating expenses:			
Research and development	\$ 11,820	\$ 3,131	\$ 8,689
General and administrative	6,466	4,246	2,220
Total operating expenses	<u>18,286</u>	<u>7,377</u>	<u>10,909</u>
Loss from operations	(18,286)	(7,377)	(10,909)
Interest income	231	1	230
Interest expense	(25)	—	(25)
Other expense	(59)	—	(59)
Net loss	<u>\$ (18,139)</u>	<u>\$ (7,376)</u>	<u>\$ (10,763)</u>

Research and Development Expenses

The following table summarizes our research and development expenses incurred during the quarters ended June 30, 2016 and 2015

	Quarter Ended June 30,		\$ Change
	2016	2015	
	(In thousands)		
External-related expenses	\$ 7,060	\$ 1,805	\$ 5,255
Employee-related costs	2,932	1,067	1,865
Stock-based compensation expense	1,272	88	1,184
Facilities and other costs	556	171	385
Total research and development expenses	<u>\$ 11,820</u>	<u>\$ 3,131</u>	<u>\$ 8,689</u>

Research and development expenses for the quarter ended June 30, 2016, increased by \$8.7 million compared to the quarter ended June 30, 2015, primarily due to external-related expenses, employee related costs, stock-based compensation expense and facilities and other costs. External-related costs increased primarily due to PALISADE, our pivotal Phase 3 clinical trial of AR101, which was initiated in late 2015, and contract manufacturing costs of AR101 for clinical trials. Employee-related costs increased primarily due to increased headcount to support continued development of AR101. Stock-based compensation expense increased primarily due to increased headcount and higher valuation of stock options granted. Facilities and other costs increased primarily due to increased rent expense from our new facility leases and other allocable costs due to increased headcount.

We expect our research and development expenses to continue to increase as we continue enrollment in PALISADE, expand our manufacturing capabilities for AR101, conduct additional clinical studies of AR101, and develop additional CODIT product candidates.

General and Administrative Expenses

The following table summarizes our general and administrative expenses incurred during the quarters ended June 30, 2016 and 2015:

	Quarter Ended June 30,		\$ Change
	2016	2015	
(In thousands)			
Employee-related costs	\$ 2,166	\$ 671	\$ 1,495
Stock-based compensation expense	1,802	875	927
External professional services	1,963	2,479	(516)
Facilities and other costs	535	221	314
Total general and administrative expenses	\$ 6,466	\$ 4,246	\$ 2,220

General and administrative expenses for the quarter ended June 30, 2016, increased \$2.2 million compared to the quarter ended June 30, 2015, primarily due to higher employee-related costs, stock-based compensation expense, and facilities and other costs, partially offset by a decrease in external professional services. Employee-related costs increased primarily due to increased headcount for additional administrative support associated with being a publicly traded company following our initial public offering, or IPO, in August 2015. Stock-based compensation expense increased primarily due to increased headcount and higher valuation of stock options granted. Facilities and other costs increased primarily due to increased rent expense from our new facility leases and other allocable costs due to increased headcount. External professional services decreased primarily due to higher costs incurred during the prior period in preparation of our IPO and market research services to inform our commercial strategy.

We expect our general and administrative expenses to continue to increase as we continue to build our infrastructure as a publicly traded company, including the hiring of additional personnel, and incur expenses related to commercial planning and support for AR101.

Comparison of the Six Months Ended June 30, 2016 and 2015

	Six Months Ended June 30,		\$ Change
	2016	2015	
(In thousands)			
Operating expenses:			
Research and development	\$ 21,796	\$ 5,200	\$ 16,596
General and administrative	12,189	5,618	6,571
Total operating expenses	33,985	10,818	23,167
Loss from operations	(33,985)	(10,818)	(23,167)
Interest income	446	1	445
Interest expense	(49)	—	(49)
Other expense	(74)	—	(74)
Net loss	\$ (33,662)	\$ (10,817)	\$ (22,845)

Research and Development Expenses

The following table summarizes our research and development expenses incurred during the six months ended June 30, 2016 and 2015:

	Six Months Ended June 30,		\$ Change
	2016	2015	
	(In thousands)		
External-related expenses	\$ 13,350	\$ 3,335	\$ 10,015
Employee-related costs	5,178	1,536	3,642
Stock-based compensation expense	2,217	96	2,121
Facilities and other costs	1,051	233	818
Total research and development expenses	<u>\$ 21,796</u>	<u>\$ 5,200</u>	<u>\$ 16,596</u>

Research and development expenses for the six months ended June 30, 2016, increased by \$16.6 million compared to the six months ended June 30, 2015, primarily due to external-related expenses, employee related costs, stock-based compensation expense and facilities and other costs. External-related costs increased primarily due to PALISADE, our pivotal Phase 3 clinical trial of AR101, which was initiated in late 2015, and contract manufacturing costs of AR101 for clinical trials. Employee-related costs increased primarily due to increased headcount to support continued development of AR101. Stock-based compensation expense increased primarily due to increased headcount and higher valuation of stock options granted. Facilities and other costs increased primarily due to increased rent expense from our new facility leases and other allocable costs due to increased headcount.

We expect our research and development expenses to continue to increase as we continue enrollment in PALISADE, expand our manufacturing capabilities for AR101, conduct additional clinical studies of AR101, and develop additional CODIT product candidates.

General and Administrative Expenses

The following table summarizes our general and administrative expenses incurred during the six months ended June 30, 2016 and 2015:

	Six Months Ended June 30,		\$ Change
	2016	2015	
	(In thousands)		
Employee-related costs	\$ 4,039	\$ 1,366	\$ 2,673
Stock-based compensation expense	3,388	893	2,495
External professional services	3,684	3,079	605
Facilities and other costs	1,078	280	798
Total general and administrative expenses	<u>\$ 12,189</u>	<u>\$ 5,618</u>	<u>\$ 6,571</u>

General and administrative expenses for the six months ended June 30, 2016, increased \$6.6 million compared to the six months ended June 30, 2015, primarily due to employee-related costs, stock-based compensation expense, external professional services and facilities and other costs. Employee-related costs increased primarily due to increased headcount for additional administrative support associated with being a publicly traded company following our IPO in August 2015. Stock-based compensation expense increased primarily due to increased headcount and higher valuation of stock options granted. External professional services increased primarily due to higher costs incurred as a result of being a publicly traded company and for costs related to participation in meetings and conferences to build awareness of AR101. Facilities and other costs increased primarily due to increased rent expense from our new facility leases and other allocable costs due to increased headcount.

We expect our general and administrative expenses to continue to increase as we continue to build our infrastructure as a publicly traded company, including the hiring of additional personnel, and as we incur expenses related to commercial planning and support for AR101.

Liquidity and Capital Resources

In August 2015, we completed our IPO and issued 11,499,999 shares of our common stock, including the exercise in full of the underwriter's option to purchase additional shares, at an initial offering price to the public of \$16.00 per share. We received net

proceeds from the IPO of \$168.1 million, after deducting underwriting discounts and commissions of \$12.9 million and offering costs of \$3.0 million. Prior to our IPO, our operations were financed primarily by net proceeds from the sale and issuance of convertible preferred stock. In January and February 2015, we received net proceeds of \$79.8 million from the sale of our Series B convertible preferred stock, of which \$12.9 million was used to repurchase outstanding shares of our Series A convertible preferred stock.

As of June 30, 2016, we had cash, cash equivalents and investments of \$171.8 million. We believe that our existing capital resources will be sufficient to fund our planned operations for at least the next 12 months and through data readout of our PALISADE trial for AR101.

We do not expect to generate revenue from product sales unless and until we successfully complete development of, obtain regulatory approval for, and begin to commercialize one or more of our product candidates, which we expect will take a number of years and is subject to significant uncertainty. Accordingly, we anticipate that we will need to raise additional capital to fund our future operations. Until such time that we can generate substantial revenue from product sales, if ever, we expect to finance our operating activities through a combination of equity offerings and debt financings, and we may seek to raise additional capital through strategic collaborations. However, we may be unable to raise additional funds or enter into such arrangements when needed on favorable terms, or at all, which would have a negative impact on our financial condition and could force us to delay, limit, reduce or terminate our development programs or commercialization efforts, or grant to others rights to develop or market product candidates that we would otherwise prefer to develop and market ourselves. Failure to receive additional funding could cause us to cease operations, in part or in full. Furthermore, even if we believe we have sufficient funds for our current or future operating plans, we may seek additional capital due to favorable market conditions or strategic considerations.

Our future funding requirements will depend on many factors, including the following:

- the time and cost necessary to complete our ongoing PALISADE trial and the related roll-over study, ARC004;
- the number, size and type of additional clinical trials or studies that we choose to initiate or the FDA or a foreign regulatory authority requires us to complete for AR101 prior to or following submission of our Biologics License Application, or BLA, or other marketing approval applications, as well as the cost and time of such trials and studies;
- the time and cost associated with clinical trials and pre-clinical development of other product candidates;
- our ability to obtain regulatory approval for and subsequently commercialize AR101 or any other product candidates we develop;
- the time and cost necessary to develop clinical supplies and a commercial-scale manufacturing process for AR101;
- sales and marketing costs associated with AR101, if approved, including the cost and timing of developing our sales and marketing capabilities;
- the amount of sales and other revenue from AR101, if approved;
- our ability to achieve sufficient market acceptance, coverage and reimbursement from third-party payors and adequate market share for our product candidates;
- the cash requirements of any future acquisitions or discovery of product candidates;
- the time and cost necessary to respond to technological and market developments;
- our ability to attract, hire and retain qualified personnel; and
- our ability to obtain and maintain intellectual property protection for AR101 and the associated costs of such activities, including for filing, prosecuting, defending and enforcing any patents for AR101.

Additional funds may not be available when we need them, on terms that are acceptable to us, or at all. If adequate funds are not available to us on a timely basis, we may be required to delay, limit, reduce or terminate:

- clinical trials or other development activities for AR101 or any future product candidate;
- our research and development activities; or
- our establishment of sales and marketing capabilities or other activities that may be necessary to commercialize AR101 or any future product candidate.

Cash Flows

Cash flows, as compared to the comparable period in the prior year, were as follows:

	Six Months Ended June 30,		S Change
	2016	2015	
	(In thousands)		
Net cash provided by (used in):			
Operating activities	\$ (23,320)	\$ (8,794)	\$ (14,526)
Investing activities	20,857	(656)	21,513
Financing activities	216	65,683	(65,467)
Net change in cash and cash equivalents	<u>\$ (2,247)</u>	<u>\$ 56,233</u>	<u>\$ (58,480)</u>

Net Cash Used In Operating Activities

Net cash used in operating activities was \$23.3 million for the six months ended June 30, 2016, an increase of \$14.5 million, from \$8.8 million for the six months ended June 30, 2015. This increase was primarily due to higher net loss from operations resulting from increased research and development and general and administrative expenses and an increase in prepaid expenses related to clinical research expenses.

Net Cash Used In Investing Activities

Net cash provided by investing activities for the six months ended June 30, 2016, consisted of maturities of investments, net of purchases of investments, partially offset by purchases of property and equipment primarily related to our manufacturing facility. Net cash used in investing activities for the six months ended June 30, 2015 consisted primarily of purchases of property and equipment related to increases in headcount.

Net Cash Provided By Financing Activities

Net cash provided by financing activities for the six months ended June 30, 2016, consisted of the exercise of stock options. Net cash provided by financing activities for the six months ended June 30, 2015, consisted primarily of proceeds of \$79.8 million from the issuance of the Series B convertible preferred stock, net of offering costs, partially offset by \$12.9 million from the repurchase of shares of our Series A convertible preferred stock from certain investors.

Contractual Obligations and Other Commitments

There have been no material changes in our contractual obligations and commitments from those disclosed in our Annual Report on Form 10-K for the year ended December 31, 2015.

Off-Balance Sheet Arrangements

We have not entered into any off-balance sheet arrangements and do not have variable interests in variable interest entities.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

Our market risks have not changed materially from those disclosed in Item 7A of our Annual Report on Form 10-K for the year ended December 31, 2015.

Item 4. Controls and Procedures

Evaluation of disclosure controls and procedures.

As required by Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”), our management, under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of June 30, 2016. Based on the evaluation of our disclosure controls and procedures, our Chief Executive Officer and Chief Financial Officer have concluded that, as of June 30, 2016, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in internal control over financial reporting.

There were no changes in our internal control over financial reporting identified in connection with the evaluation required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the quarter ended June 30, 2016, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Inherent Limitations on Effectiveness of Controls

Internal control over financial reporting may not prevent or detect all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Also, projections of any evaluation of effectiveness of internal control to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. Accordingly, our disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the objectives of our disclosure control system are met.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings.

We are not currently a party to any material litigation or other material legal proceedings.

Item 1A. Risk Factors.

Our business involves significant risks, some of which are described below. You should carefully consider these risks, as well as the other information in this Quarterly Report on Form 10-Q, including our consolidated financial statements and the related notes and "Management's Discussion and Analysis of Financial Condition and Results of Operations." The occurrence of any of the events or developments described below could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our business operations.

Risks Related to Our Limited Operating History, Financial Condition and Capital Requirements

We have a limited operating history, have incurred significant losses since our inception, and anticipate that we will continue to incur losses for the foreseeable future. We have only one product candidate in clinical trials and no product sales, which, together with our limited operating history, make it difficult to assess our future viability.

We are a clinical-stage biopharmaceutical company with a limited operating history. Biopharmaceutical product development is a highly speculative undertaking and involves a substantial degree of risk. To date, we have focused primarily on developing our Characterized Oral Desensitization Immunotherapy, or CODITTM, system and our lead product candidate, AR101, which is currently our only product in clinical development, and researching additional product candidates. We are not profitable and have incurred losses each year since our inception in June 2011. We have only a limited operating history upon which you can evaluate our business and prospects. In addition, we have limited experience and have not yet demonstrated an ability to successfully overcome many of the risks and uncertainties frequently encountered by companies in new and rapidly evolving fields, particularly in the pharmaceutical industry. We have not generated any revenue from product sales and, as a result, we have incurred significant losses. We incurred a net loss of \$35.8 million and \$11.1 million for the years ended December 31, 2015 and 2014, respectively, and \$33.7 million and \$10.8 million for the six months ended June 30, 2016 and 2015, respectively. At June 30, 2016, our accumulated deficit was \$87.0 million. We expect to continue to incur losses for the foreseeable future, and we anticipate these losses will increase as we continue our development of, seek regulatory approval for, and begin to commercialize AR101, and as we develop other product candidates. Even if we achieve profitability in the future, we may not be able to sustain profitability in subsequent periods. Our prior losses, combined with expected future losses, have had and will continue to have an adverse effect on our stockholders' equity and working capital.

We will require substantial additional financing to achieve our goals, and a failure to obtain this necessary capital when needed on acceptable terms, or at all, could force us to delay, limit, reduce or terminate our product development, other operations or commercialization efforts.

Since commencing our operations in 2011, substantially all of our efforts have been focused on research, development and the advancement of AR101. As of June 30, 2016, we had capital resources consisting of cash, cash equivalents and investments of \$171.8 million. We believe that we will continue to expend substantial resources for the foreseeable future as we continue clinical development, seek regulatory approval for and prepare for the commercialization of AR101, and as we develop other product candidates.

These expenditures will include costs associated with research and development, conducting nonclinical studies and clinical trials, obtaining regulatory approvals, manufacturing and supply, sales and marketing, and general operations. In addition, other unanticipated costs may arise. Because the outcome of any clinical trial and/or regulatory approval process is highly uncertain, we may not be able to accurately estimate the actual amounts necessary to successfully complete the development, regulatory approval process and commercialization of AR101 or any other product candidates.

We believe that our existing capital resources will be sufficient to fund our planned operations for at least the next 12 months and through data readout of PALISADE (Peanut Allergy Oral Immunotherapy Study of AR101 for Desensitization in Children and Adults), our ongoing pivotal Phase 3 trial for AR101. However, our operating plan may change as a result of many factors, including factors currently unknown to us, and we may need to seek additional funds sooner than planned, through public or private equity, debt financings or other sources, such as strategic collaborations. Such financing may result in dilution to stockholders, imposition of debt covenants and repayment obligations or other restrictions that may affect our business. If we raise additional capital through strategic collaboration agreements, we may have to relinquish valuable rights to our product candidates including possible future revenue streams. In addition, any fundraising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize our product candidates. Furthermore, even if we believe we have sufficient funds for our current or future operating plans, we may seek additional capital due to favorable market conditions or strategic considerations.

Our future funding requirements will depend on many factors, including, but not limited to:

- the time and cost necessary to complete our ongoing PALISADE trial and the related roll-over study, ARC004;
- the number, size and type of additional clinical trials or studies that we choose to initiate or the FDA or a foreign regulatory authority requires us to complete for AR101 prior to or following submission of our Biologics License Application, or BLA, or other marketing approval applications, as well as the cost and time of such trials and studies;
- the time and cost associated with clinical trials and pre-clinical development of other product candidates;
- our ability to obtain regulatory approval for and subsequently commercialize AR101 or any other product candidates we develop;
- the time and cost necessary to develop clinical supplies and a commercial-scale manufacturing process for AR101;
- sales and marketing costs associated with AR101, if approved, including the cost and timing of developing our sales and marketing capabilities;
- the amount of sales and other revenue from AR101, if approved;
- our ability to achieve sufficient market acceptance, coverage and reimbursement from third-party payors and adequate market share for our product candidates;
- the cash requirements of any future acquisitions or discovery of product candidates;
- the time and cost necessary to respond to technological and market developments;
- our ability to attract, hire and retain qualified personnel; and
- our ability to obtain and maintain intellectual property protection for AR101 or any future product candidate and the associated costs of such activities, including for filing, prosecuting, defending and enforcing any patents for AR101 or any future product candidate.

Additional funds may not be available when we need them, on terms that are acceptable to us, or at all.

If adequate funds are not available to us on a timely basis, we may be required to delay, limit, reduce or terminate:

- clinical trials or other development activities for AR101 or any future product candidate;
- our research and development activities; or
- our establishment of sales and marketing capabilities or other activities that may be necessary to commercialize AR101 or any future product candidate.

Our operating results may fluctuate significantly, which makes our future operating results difficult to predict and could cause our operating results to fall below expectations or our guidance.

Our quarterly and annual operating results may fluctuate significantly, which makes it difficult for us to predict our future operating results. These fluctuations may occur due to a variety of factors, many of which are outside of our control and may be difficult to predict, including:

- the timing and cost of, and level of investment in, research, development, and commercialization activities relating to our product candidates, which may change from time to time;
- coverage and reimbursement policies with respect to our product candidates, if approved, and potential future drugs that compete with our product candidates;
- the timing and cost of our clinical trials, including the ability to initiate sites, enroll patients in a timely manner, and submit or obtain approval of regulatory filings;
- the cost of manufacturing our product candidates, which may vary depending on the quantity of production and the terms of our agreements with manufacturers;
- expenditures that we may incur to acquire, develop or commercialize additional product candidates and technologies;
- the level of demand for our products, if approved, which may vary significantly;
- future accounting pronouncements or changes in our accounting policies; and
- the timing and success or failure of clinical trials for our product candidates or competing product candidates, or any other change in the competitive landscape of our industry, including consolidation among our competitors or partners.

The cumulative effects of these factors could result in large fluctuations and unpredictability in our quarterly and annual operating results. As a result, comparing our operating results on a period-to-period basis may not be meaningful. Investors should not rely on our past results as an indication of our future performance.

This variability and unpredictability could also result in our failing to meet the expectations of industry or financial analysts or investors for any period. If our revenue or operating results fall below the expectations of analysts or investors or below any forecasts we may provide to the market, or if the forecasts we provide to the market are below the expectations of analysts or investors, the price of our common stock could decline substantially. Such a stock price decline could occur even when we have met any previously publicly stated revenue and/or earnings guidance we may provide.

Risks Related to Our Business

We are substantially dependent on the success of AR101, which will require significant additional clinical testing before we can seek regulatory approval and potentially commence commercial sales, and which may not be successful in clinical trials, receive regulatory approval or be successfully commercialized, even if approved.

We currently have no products approved for sale. To date, we have invested substantially all of our efforts and financial resources in the research and development of our CODIT system and AR101, which is currently our only product candidate in clinical development. Before seeking marketing approval from the FDA, or comparable foreign regulatory authorities, for the sale of AR101, we must conduct extensive clinical trials to demonstrate the safety and efficacy of the product in humans. We cannot be certain that AR101 will successfully demonstrate such properties in clinical trials and, even if it is successful, we may not receive regulatory approval for AR101, or we may receive approval in a limited patient population, or we may experience delays in receiving such regulatory approval. If we do not receive regulatory approval for AR101, we may not be able to continue our operations.

As a result, our prospects, including our ability to finance our operations and generate revenue, will depend largely on the successful development, regulatory approval and commercialization of AR101. We do not expect that such commercialization will occur for at least the next two years, if ever. The clinical and commercial success of AR101 will depend on a number of factors, many of which are out of our control, including the following:

- the results from our PALISADE trial;
- the frequency and severity of adverse effects experienced by patients treated with AR101;
- the availability, perceived advantages, relative cost, relative safety and relative efficacy of alternative and competing treatments;

- the ability of third-party manufacturers to manufacture supplies of AR101 and to develop, validate and maintain a commercial-scale manufacturing process that is compliant with current good manufacturing practices, or cGMP;
- our ability to maintain our exclusive supply relationship with the Golden Peanut Company, or GPC;
- our ability to demonstrate AR101's safety and efficacy to the satisfaction of the FDA and foreign regulatory authorities, including our ability to enroll a sufficient number of adult patients to demonstrate to the FDA AR101's safety and efficacy in that population;
- whether we are required by the FDA or other foreign regulatory authorities, or choose, to conduct additional clinical trials prior to the approval to market AR101, as well as the cost and time of such trials;
- whether the FDA or other foreign regulatory authorities may disagree with the number, design, size, conduct or implementation of our clinical trials;
- our ability to raise additional capital to fund our development, manufacturing and commercialization activities for AR101;
- the receipt of necessary marketing approvals from the FDA and foreign regulatory authorities;
- the extent and nature of any Risk Evaluation and Mitigation Strategy, or REMS, or foreign equivalent, that may be required in connection with regulatory approval or following regulatory approval;
- whether the FDA may restrict the use of our products to a narrow population;
- our ability to successfully commercialize AR101, if approved for marketing and sale by the FDA or foreign regulatory authorities, whether alone or in collaboration with others;
- our success in educating physicians and patients about the benefits, administration and use of AR101;
- acceptance of AR101 as safe and effective by patients and the medical community;
- the continued prevalence of peanut allergy;
- achieving and maintaining compliance with all regulatory requirements applicable to AR101;
- the effectiveness of our own or any future collaborators' marketing, pricing, coverage and reimbursement, sales and distribution strategies and operations;
- our ability to obtain issued patents that cover AR101 and to enforce such patents and other intellectual property rights to AR101;
- our ability to avoid third-party intellectual property claims; and
- a continued acceptable safety profile of AR101 following approval.

In addition, even though AR101 was granted Breakthrough Therapy designation by the FDA for oral immunotherapy of peanut allergic children and adolescents (ages 4 through 17), we may not experience a faster development, review or approval process compared to conventional FDA procedures. Generally, a product may be designated as a Breakthrough Therapy if it is intended, either alone or in combination with one or more other products, to treat a serious or life-threatening disease or condition and preliminary clinical evidence indicates that the product may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. Breakthrough Therapy status allows us to hold additional meetings with the FDA during the development process and to receive advice from the FDA regarding development and approval for AR101. We are in ongoing discussions with the FDA on a number of topics for AR101, including the size of the safety database required for an initial approval, the number of clinical trial subjects required for an initial approval in certain subgroups and whether, based on our current clinical development plan, we will be required to conduct additional clinical trials prior to filing a BLA. Any additional clinical development requirements from the FDA would increase the costs of our clinical development program for AR101 and potentially delay our BLA submission timeline.

The FDA and foreign regulatory authorities have substantial discretion in the approval process and we may be required to expend additional time and resources to obtain an approval, if any, and any approval we may seek may be delayed or prevented or limited to a narrower patient population than we originally target. For example, the FDA or a foreign regulatory authority may object to elements of our clinical development program, including the number of patients in a particular subpopulation. Despite the time and expense exerted, failure can occur at any stage, and, even if we are able to obtain approval for AR101, such approval may be limited to a certain patient subgroup, such as children and adolescents between the ages of 4 and 17. Accordingly, we cannot assure our stockholders that we will ever be able to generate revenue through the sale of AR101 or become profitable as a result of such sales. If we are not able to successfully demonstrate the safety and efficacy of AR101 in humans in our clinical trials, obtain regulatory

approval for AR101 for the indications we seek and successfully commercialize AR101, or if we are significantly delayed in doing so, our business will be materially harmed.

Clinical drug development involves a lengthy and expensive process with an uncertain outcome, and we may encounter substantial delays in our clinical trials. Furthermore, results of earlier studies may not be predictive of future studies' results.

Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. Failure can occur at any time during the clinical trial process. The results of early clinical trials of our product candidates may not be predictive of the results of later-stage clinical trials and of similar academic research studies. For example, the positive results generated in our Phase 2 clinical trials of AR101 do not ensure that our PALISADE trial will demonstrate similar results. Product candidates in later stages of clinical trials may fail to show the desired safety and efficacy despite having progressed through initial clinical trials. A number of companies in the pharmaceutical industry have suffered significant setbacks in advanced clinical trials due to lack of efficacy or adverse safety profiles, notwithstanding promising results in earlier studies, and we cannot be certain that we will not face similar setbacks. Even if our clinical trials are completed, the results may not be sufficient to obtain regulatory approval or commercial acceptance for our product candidates in the indications that we are seeking or at all.

In addition, we do not know whether our PALISADE trial or clinical trials of other product candidates will need to be redesigned, will enroll an adequate number of patients on time, or will be conducted on schedule, if at all. Clinical trials can be delayed or terminated for a variety of reasons, including delay or failure to:

- obtain regulatory approval to commence a clinical trial;
- reach agreement on acceptable terms with prospective contract research organizations, or CROs, and clinical trial sites, the terms of which can be subject to extensive negotiation and may vary significantly among CROs and clinical trial sites;
- obtain institutional review board, or IRB, or foreign equivalent approval at each site;
- recruit suitable patients to participate in a clinical trial, including, in particular, a sufficient number of adult patients to support approval in that patient population;
- have patients complete a clinical trial or return for post-treatment follow-up;
- ensure that clinical sites observe clinical trial protocols, operate in accordance with good clinical practice standards, or continue to participate in a clinical trial;
- address any patient safety concerns that arise during the course of a clinical trial, particularly with respect to the double-blind, placebo-controlled food challenges;
- address any conflicts with new or existing laws or regulations;
- initiate or add a sufficient number of clinical trial sites;
- demonstrate that the manufacturing process for AR101 is adequately controlled to ensure that all product produced meets required quality and regulatory standards; or
- manufacture sufficient quantities of product candidate for use in clinical trials.

For example, subsequent to filing our Investigational New Drug application, or IND, for AR101, the FDA put the Phase 2 clinical trial on clinical hold in order to obtain additional information regarding our manufacturing process and to request certain changes to the design of the clinical trial. Specifically, the FDA requested information regarding the procedures used to ensure that the drug product was not contaminated, the procedures used to ensure the uniformity and consistency of the drug product, our acceptance procedures for the drug product and the placebo, and procedures to ensure correct dosing. In addition, the FDA requested changes to the clinical trial relating to the stopping rules for the trial, withdrawal criteria for the trial, exclusion criteria for patients, the appearance of the drug and the placebo, and the drug lots used in the trial. We provided the FDA with the information it requested and made agreed-upon changes to the clinical trial. However, complying with the FDA's request resulted in an approximately two month delay in initiation of the trial.

We rely on CROs and clinical trial sites to ensure the proper and timely conduct of our clinical trials and, while we have agreements governing their committed activities, we have limited influence over their actual performance and, as a result, may be subject to unanticipated delays. We are conducting our clinical trials at leading academic allergy research centers in the United States and Europe, as well as at community allergy practices. The number and capacity of such sites is limited and our ability to access the sites may be affected by the number and size of other trials occurring at the same time, including trials sponsored by our competitors. If adequate capacity at these sites is not available, the initiation and pace of our clinical trials may be adversely affected.

Conducting clinical trials in foreign countries, as we are doing for our PALISADE trial, presents additional risks that may delay completion of our clinical trials. These risks include a foreign regulatory authority imposing additional requirements prior to the commencement of clinical trials in a foreign country, the failure of physicians or enrolled patients in foreign countries to adhere to clinical protocol as a result of differences in healthcare services or cultural customs, managing additional administrative burdens associated with foreign regulatory schemes, and political and economic risks relevant to such foreign countries. In addition, the FDA may determine that our clinical trial results obtained in foreign subjects are not representative of the U.S. patient population and are thus not supportive of a BLA approval in the United States.

Patient enrollment is a significant factor in the timing of clinical trials and is affected by many factors, including the size and nature of the patient population, the proximity of patients to clinical sites, the eligibility criteria for the clinical trial, the design of the clinical trial, safety, competing clinical trials, and clinicians' and patients' perceptions as to the potential advantages of the drug being studied in relation to other available therapies, including any new drugs or treatments that may be approved for the indications we are investigating.

In addition, certain sub-groups of patients may be more difficult to recruit than others. For example, in our PALISADE trial we intend to recruit a significant number of adults. Prior to PALISADE, we enrolled only one patient above the age of 17, and we believe the adult patient population is more difficult to recruit than younger patients. If we are not able to recruit sufficient numbers of adults into our PALISADE trial, or if the FDA concludes that additional safety and efficacy data is required for that patient sub group or any other age-based subgroup, any approval that we may obtain will not include an indication for patients of such subgroup. If we are not able to recruit patients to participate in our clinical trials in a timely manner, our business and results of operations could be adversely affected.

We could also encounter delays if a clinical trial is suspended or terminated by us, by the IRBs of the institutions in which such studies are being conducted, by an independent Safety Review Board for such clinical trial, or by the FDA or other regulatory authorities. Such authorities may suspend or terminate a clinical trial due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols, failure to pass inspections of the clinical trial operations or trial site by the FDA or other regulatory authorities, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using the product, changes in governmental regulations or administrative actions, or lack of adequate funding to continue the clinical trial. For example, the protocols for our clinical trials require that patients participate in food challenges where they receive increasing amounts of the food to which they are allergic. In our clinical trials, participation in these food challenges has resulted in allergic reactions severe enough to require treatment with epinephrine. It is possible that patients could have allergic reactions severe enough to require hospitalization or even cause death. In such an event, we could be required to suspend or terminate our clinical trials.

If we experience delays in the completion of, or termination of, any clinical trial of our product candidates, the commercial prospects of our product candidates may be harmed, and our ability to generate product revenues from any of these product candidates will be delayed. In addition, any delays in completing our clinical trials will increase our costs, slow down our product candidate development and approval process, and jeopardize our ability to commence product sales and generate revenues. Any of these occurrences could have a material adverse effect on our business, results of operations, financial condition, prospects, and stock price. In addition, many of the factors that cause or lead to a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of regulatory approval of our product candidates.

In our clinical trials, we utilize an oral food challenge procedure designed to trigger an allergic reaction, which could be severe or life threatening.

In accordance with our food allergy clinical trial protocols, we utilize a double-blind, placebo-controlled food challenge procedure. This consists of giving the offending food protein to patients in order to assess the sensitivity of their food allergy, and thus to assess the safety and efficacy of our product candidates versus placebo. The food challenge protocol is meant to induce objective symptoms of an allergic reaction. These oral food challenge procedures can potentially trigger anaphylaxis, a potentially life-threatening systemic allergic reaction. Even though these procedures are well-controlled, standardized, and performed in highly specialized centers with or near intensive care units, there are inherent risks in conducting a clinical trial of this nature. Such risks may dissuade patients or parents of patients from electing to participate in our clinical trials. In addition, an uncontrolled allergic reaction could potentially lead to a serious or even fatal reaction and any such serious clinical event could potentially adversely affect our clinical development timelines, including a complete clinical hold on our food allergy clinical trials. For instance, we are aware of one clinical trial for a peanut allergy treatment that was terminated by its safety monitoring committee because of severe adverse events arising from the administration of food challenges. We may also become liable to subjects who participate in our clinical trials and experience any such serious or fatal reactions. Any of the foregoing could have a material adverse effect on our business, results of operations, financial condition, prospects, and stock price.

The regulatory approval process is lengthy, time-consuming and inherently unpredictable, and we may experience significant delays in obtaining regulatory approval of AR101, if we do so at all, which would delay the commercialization of AR101, adversely impact our ability to generate revenue, and harm our business and our results of operations.

To gain approval to market a biologic product candidate, such as AR101, we must provide the FDA and foreign regulatory authorities with clinical, non-clinical and manufacturing data that adequately demonstrates to the satisfaction of such regulatory authorities the safety, purity, potency and effectiveness of the product for the intended indication applied for in the BLA or other relevant regulatory filing. We have not previously submitted a BLA to the FDA or similar approval filings to comparable foreign regulatory authorities. A BLA or other relevant regulatory filing must include extensive nonclinical and clinical data and supporting information to establish that the product candidate is safe, pure, potent and effective for each desired indication. The BLA or other relevant regulatory filing must also include significant information regarding the chemistry, manufacturing and controls for the product.

The FDA or any foreign regulatory body can delay, limit or deny approval to market AR101 for many reasons, including:

- our inability to demonstrate to the satisfaction of the FDA that AR101 is safe, pure, potent and effective for the proposed indication or that it meets similar standards set by foreign authorities;
- the FDA or the applicable foreign regulatory authority may disagree with the interpretation of data from our clinical trials;
- our inability to demonstrate that the clinical and other benefits of AR101 outweigh any safety or other perceived risks;
- the FDA or the applicable foreign regulatory authority may require additional nonclinical studies or clinical trials, including trials with additional patients in one or more subgroups or to establish a larger safety database of patients who have been administered AR101;
- the CROs that we retain to conduct our clinical trials may take actions outside of our control that materially adversely impact our clinical trials;
- the FDA or the applicable foreign regulatory authority may not approve or may disagree with the formulation, packaging, labeling, and/or the specifications of AR101;
- if our BLA, if and when submitted, is reviewed by an advisory committee, the FDA may have difficulties scheduling an advisory committee meeting in a timely manner, or the advisory committee may recommend against approval of our application or may recommend that the FDA require, as a condition of approval, additional nonclinical studies or clinical trials, limitations on approved labeling, or distribution and use restrictions;
- the FDA or the applicable foreign regulatory authority may require development of a REMS as a condition of approval or post-approval that is more extensive than we propose;
- our inability to demonstrate that the manufacturing process for AR101 is adequately controlled to ensure that all product produced meets required quality standards;
- the FDA or the applicable foreign regulatory authority may fail to approve the third-party manufacturers or testing laboratories with which we contract; or
- the potential for approval policies or regulations of the FDA or the applicable foreign regulatory authorities to significantly change in a manner rendering our clinical data insufficient for approval.

Of the large number of drugs and biologics in development, only a small percentage successfully complete the FDA or other regulatory approval processes and are commercialized. In addition, the FDA has never approved a drug for treating food allergy through desensitization and, in particular, has never approved a drug based on efficacy as measured by a double-blind, placebo controlled food challenge, which is the testing mechanism for determining the desensitization efficacy of AR101.

Even if we eventually complete clinical testing and receive approval of a BLA or foreign marketing authorization for AR101, the FDA or the applicable foreign regulatory authority may grant approval contingent on the performance of costly, additional clinical trials. The FDA or the applicable foreign regulatory authority may also approve AR101 for a more limited indication and/or a narrower patient population than we originally request, or we may choose to pursue approval in a narrower patient population. Further, the FDA or applicable foreign regulatory authority may not approve the labeling that we believe is necessary or desirable for the successful commercialization of AR101. Any delay in obtaining, or an inability to obtain, applicable regulatory approval or a regulatory approval for a more limited indication and/or a narrower patient population would delay, prevent, or limit commercialization of AR101 and would materially adversely impact our business and prospects.

If we do not receive marketing approval for AR101, or we are otherwise not successful in commercializing AR101, or we are significantly delayed in doing so, our business will be materially harmed, and we may need to curtail or cease operations. We currently have no products approved for sale, and we may never obtain regulatory approval to commercialize AR101.

If we do not achieve our projected development and commercialization goals in the timeframes we announce and expect, the commercialization of AR101 or any future product candidates may be delayed, and our business will be harmed.

For planning purposes, we sometimes estimate the timing of the accomplishment of various scientific, clinical, regulatory and other product development objectives. These milestones may include our expectations regarding the commencement or completion of scientific studies and clinical trials, the submission of regulatory filings, or commercialization objectives. From time to time, we may publicly announce the expected timing of some of these milestones, such as the completion of an ongoing clinical trial, the initiation of other clinical programs, receipt of marketing approval, or a commercial launch of a product. The achievement of many of these milestones may be outside of our control. All of these milestones are based on a variety of assumptions which may cause the timing of achievement of the milestones to vary considerably from our estimates, including:

- our available capital resources or capital constraints we experience;
- the rate of progress, costs and results of our clinical trials and research and development activities, including the extent of scheduling conflicts with participating clinicians and collaborators, and our
- ability to identify and enroll patients who meet clinical trial eligibility criteria;
- our receipt of approvals by the FDA and other regulatory authorities and the timing thereof;
- other actions, decisions or rules issued by regulators;
- our ability to access sufficient, reliable and affordable supplies of materials used in the manufacture of our product candidates;
- the efforts of our collaborators with respect to the commercialization of our products; and
- the securing of, costs related to, and timing issues associated with product manufacturing as well as sales and marketing activities.

If we fail to achieve announced milestones in the timeframes we expect, the commercialization of AR101 and any future product candidates may be delayed, and our business and results of operations may be harmed.

We rely exclusively on the Golden Peanut Company to provide the source material for AR101 and are exposed to a number of sole supplier risks.

The source material for AR101 is a specific type of peanut flour, which we purchase from GPC pursuant to a long-term exclusive commercial supply agreement. In order to develop AR101 as an FDA-approvable biological product, we were required to precisely characterize the protein signature of the flour. We believe the flour produced by GPC has a distinct protein signature that is significantly different from the protein signatures of other commercially available peanut flours and, as a result, it is unlikely that we could use any other peanut flours as the source material for AR101. If GPC became unwilling or unable to supply us with peanut flour, our business and operating results would be materially adversely affected.

In addition, our agreement with GPC does not require GPC to provide us with peanut flour that has a specific protein signature or that meets other potentially relevant pharmaceutical standards. We have tested multiple lots of GPC peanut flour produced in several different years and generally have not identified significant variations in the protein signature between lots. We can provide no assurance that natural variations in the peanuts sourced by GPC, changes in the agricultural practices used to produce the peanuts sourced by GPC, or variations in GPC's manufacturing process will not result in alterations in the protein signature or other characteristics of GPC's peanut flour that would make it unsuitable for use in AR101. If such alterations occurred, we would not be able to manufacture AR101 and our business and operating results would be materially adversely affected. In addition, as our purchases of peanut flour from GPC represent an insignificant portion of GPC's total peanut flour sales, we have only a limited ability to influence GPC's decisions regarding its sourcing of peanuts or methods of producing peanut flour.

Our agreement with GPC restricts it from selling peanut flour of the type (or equivalent to the type) we use to any third party in the United States, Canada, Mexico, the European Union or Japan for use in oral immunotherapy, or OIT, for peanut allergy. The agreement remains in effect until five years after the first delivery to us of peanut flour for commercial use and includes an option for us to extend the term for an additional five years, however GPC may terminate the agreement upon 60 days' written notice if we fail to meet our minimum annual purchase commitment and fail to pay an amount equal to GPC's standard price for the unpurchased quantity within the notice period. GPC may also terminate the agreement if we fail to cure a material breach within 30 days of receiving notice of such breach from GPC or if we fail to perform our obligations under the agreement for a continuous period of 90 days due to a force majeure event or an insolvency or bankruptcy-related events. If GPC were to make sales despite the restrictions set forth in the agreement, or terminate the agreement as a result of any of the foregoing or if we were to otherwise lose exclusivity, we could face additional competition from pharmaceutical and biotechnology companies, with considerably more resources and experience than we have, that are researching and selling products designed to treat food allergies or allergies in general.

AR101 may cause undesirable side effects or have other properties that could delay or prevent its regulatory approval, limit the commercial profile of an approved label, or result in significant negative consequences following its marketing approval, if that occurs.

Undesirable side effects caused by our product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other comparable foreign regulatory authorities. To date, patients treated with AR101 have experienced drug-related side effects, which mainly include gastrointestinal issues ranging from itching of the lips to vomiting. Results of our trials could reveal a high and unacceptable severity and prevalence of these or other side effects. In such an event, our clinical trials could be suspended or terminated and the FDA or comparable foreign regulatory authorities could order us to cease further development of or deny approval of our product candidates for any or all targeted indications. The drug-related side effects could affect patient recruitment or the ability of enrolled patients to complete the clinical trial, or they could result in potential product liability claims. Any of these occurrences may harm our business, financial condition and prospects significantly.

In addition, clinical trials by their nature utilize a sample of the potential patient population. With a limited number of subjects and limited duration of exposure in our clinical trials, we cannot be assured that rare and severe adverse effects of AR101 will not be uncovered when a significantly larger number of patients are exposed to the drug. Further, we have not designed our clinical trials to determine the effect and safety consequences of taking AR101 over a multi-year period.

Although we have monitored the subjects in our studies for certain safety concerns and we have not seen evidence of significant safety concerns in our clinical trials, patients treated with AR101 may experience adverse reactions. For instance, in independent research studies, patients receiving OIT for peanut allergy have suffered severe anaphylactic reactions. While we have developed AR101 and its associated treatment regimen in a manner that we believe reduces the risk of adverse reactions, we can provide no assurance that patients administered AR101 will not also suffer severe anaphylactic reactions, including reactions leading to death. For example, in our ARC001 clinical trial, one patient had an allergic reaction that was attributed to AR101 that was severe enough to require the administration of epinephrine, and six patients in our ARC001 clinical trial and four patients in our ARC002 clinical trial who received AR101 and who did not achieve desensitization dropped out of the clinical trials early in the treatment regimen due to gastrointestinal side effects. It is possible that the FDA may ask for additional data regarding such matters.

If safety problems are identified prior to approval of AR101, the FDA or other regulatory agencies may not approve AR101, may limit the population in which it is used, or may require warnings on the label. If AR101 is ultimately approved and we or others later identify undesirable side effects caused by AR101, the FDA or other regulatory agencies may: require that we amend the labeling of AR101; require additional warnings; create a medication guide outlining the risks of such side effects for distribution to patients; order us to recall AR101 or even withdraw marketing approval for AR101. In addition, we could be sued and held liable for harm caused to patients and our reputation may suffer. Each of these events could prevent us from achieving or maintaining market acceptance of AR101, if approved, and could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

The potential efficacy of AR101, if approved, is dependent upon patient compliance with the prescribed dosing regimen, and failure to adhere to the dosing regimen could increase the potential of a patient experiencing an adverse allergic reaction.

The AR101 treatment regimen, if approved, would require that patients start with a very low dose of AR101 and gradually increase their dose over time. Based on our existing clinical data, we anticipate it will take patients approximately six months to reach a daily dose level of 300 mg of peanut protein. Patients would then continue on a daily 300 mg maintenance dose.

In order to maintain desensitization, patients would need to continue to take a daily 300 mg maintenance dose. The potential efficacy of AR101, if approved, is dependent upon patients complying with the prescribed dosing regimen, including the continued maintenance dosing. Based on our studies and independent studies, we do not believe that the occasional failure to take a dose will affect desensitization. However, in the event a patient fails to follow the prescribed dosing regimen or halts or skips treatment and then restarts the dosing regimen, the likelihood of an adverse allergic reaction to the allergen is greatly increased, as any level of desensitization previously achieved may have dissipated. Further, patients will be required to continue to practice avoidance to peanut exposure and, if patients begin to achieve desensitization, it is possible that they may become less vigilant in practicing avoidance and further increase their risk of an accidental exposure. As a result, a lack of patient compliance and the resulting increased likelihood for adverse safety events could have a material adverse effect on our ability to obtain and maintain, if approved, the regulatory approval necessary to commercialize AR101.

Failure to do so would significantly harm our business, results of operations, financial condition, prospects and stock price. In addition, if patients drop out of our clinical trial due to the strict dosing regimen, the likelihood that we will be able to demonstrate clinically meaningful desensitization will be decreased.

We intend to rely on third parties to manufacture our clinical and commercial drug supply of AR101 and to manufacture nonclinical, clinical and commercial supplies of any future product candidates.

We do not currently have the infrastructure or internal capability to produce our clinical or commercial supply of AR101, and we lack the internal resources and the capability to manufacture any product candidates on a nonclinical, clinical or commercial scale. The FDA and other comparable foreign regulatory authorities must approve our contract manufacturers to manufacture AR101 or any future product candidates, pursuant to inspections that will be conducted before and after we submit our BLA or relevant foreign regulatory submission.

We do not directly control the manufacturing operations of contract manufacturers, and we are completely dependent on them for compliance with cGMP for manufacture of our products and product candidates. While we are building a manufacturing facility in a leased building in Clearwater, Florida, we will be reliant upon a contract manufacturer to operate that facility. If the contract manufacturer operating that facility or our other contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or foreign regulatory authorities, they will not be able to secure and/or maintain regulatory approval for their manufacturing facilities. In addition, we have no direct control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance, and qualified personnel. Furthermore, all of our contract manufacturers are engaged with other companies to supply and/or manufacture materials or products for such companies, which exposes our manufacturers to regulatory risks for the production of such materials and products. As a result, failure to meet the regulatory requirements for the production of those materials and products may generally affect the regulatory clearance of our contract manufacturers' facilities. If the FDA or a comparable foreign regulatory authority does not approve these facilities for the manufacture of our product candidates or if either authority withdraws its approval in the future, we may need to find alternative manufacturing facilities, which would negatively impact our ability to develop, obtain regulatory approval for, or market our product candidates, if approved.

We intend to rely on a single manufacturer for the production of the drug product used in AR101 and a single contract manufacturer for the packaging of AR101. If one of these manufacturers encounters financial difficulties and is unable to continue operating or is acquired by a third party and changes strategic direction, our ability to obtain supplies of AR101 or future product candidates could be materially adversely affected.

We have not yet entered into an agreement with any third-party manufacturers to produce commercial quantities of drug product used in AR101 or the packaging of AR101, and any failure to reach such an agreement and commence the development process for AR101 in a timely manner would delay commercialization of AR101.

We intend to rely on third-party manufacturers to develop a commercial-scale manufacturing process for AR101. While we have identified potential manufacturing partners for the commercial supply of drug product used in AR101 and the packaging of AR101, we have not yet entered into agreements with respect to either supply. Aspects of our manufacturing process for AR101 are complex and our existing manufacturing process will need to be scaled up to meet our anticipated commercial requirements. If we and our third-party manufacturers are not able to successfully develop a commercial manufacturing process or do so in a timely manner, we will not be able to initiate commercialization of AR101 within our estimated timeline, if at all. We anticipate that we will initially be dependent on a single contract manufacturer for the production of the drug product used in AR101 and a single contract manufacturer for the packaging of AR101 and that during such time, our commercialization efforts will be substantially dependent on such contract manufacturers' ability to scale up the manufacturing process for AR101. In addition, we will need to make a substantial investment in property and equipment in order to support the commercial production of AR101. Any delay in making that investment and acquiring the necessary infrastructure could delay commercial production of AR101.

We rely on third parties to conduct our clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may be unable to obtain regulatory approval for or commercialize AR101 or any future product candidates.

We do not have the ability to independently conduct clinical trials. We rely and plan to continue to rely on medical institutions, clinical investigators, contract laboratories, collaborative partners and other third parties, such as CROs, to conduct clinical trials on our product candidates. The third parties with whom we contract for execution of our clinical trials play a significant role in the conduct of these studies and the subsequent collection and analysis of data. However, these third parties are not our employees, and, except for contractual duties and obligations, we have limited ability to control the amount or timing of resources that they devote to our programs. Although we rely on these third parties to conduct our clinical trials, we remain responsible for ensuring that each of our clinical trials is conducted in accordance with the applicable protocol, legal, regulatory and scientific standards, and our reliance on these third parties does not relieve us of our regulatory responsibilities.

The FDA and foreign regulatory authorities require us and our third-party contractors to comply with regulations and standards, including regulations commonly referred to as good clinical practices, or GCPs, which are regulations and guidelines enforced by the FDA and foreign regulatory authorities for conducting, monitoring, recording and reporting the results of clinical trials to ensure that the data and results are scientifically credible and accurate, and that the clinical trial subjects are adequately informed of the potential risks of participating in clinical trials. Regulatory authorities enforce these GCPs through periodic inspections of clinical trial sponsors, principal investigators and clinical trial sites. If we or any of our third-party contractors fail to comply with applicable GCPs, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot assure our stockholders that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials complies with GCP regulations.

In addition, certain of our clinical trials must be conducted with product produced under current good manufacturing practice, or cGMP, regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process. In addition, the execution of clinical trials, and the subsequent compilation and analysis of the data produced, requires coordination among various parties. In order for these functions to be carried out effectively and efficiently, it is imperative that these parties communicate and coordinate with one another. Moreover, these third parties may also have relationships with other commercial entities, some of which may compete with us. In addition, our agreements with third parties may typically be terminated by such third parties upon as little as 30 days' prior written notice or, in certain cases, under certain other circumstances, including our insolvency. If the third parties conducting our clinical trials do not perform their contractual duties or obligations, experience work stoppages, do not meet expected deadlines, terminate their agreements with us or need to be replaced, or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical trial protocols or GCPs, or for any other reason, we may need to enter into new arrangements with alternative third parties, which could be difficult, costly or impossible, and our clinical trials may be extended, delayed or terminated or may need to be repeated. If any of the foregoing were to occur, we may not be able to obtain regulatory approval for or commercialize the product candidate being tested in such studies.

Even if AR101 or any future product candidates obtain regulatory approval, they may never achieve market acceptance or commercial success, which will depend, in part, upon the degree of acceptance among clinicians, patients, patient advocacy groups, healthcare payors and the general medical community.

Even if we obtain FDA or other regulatory approvals, AR101 or any future product candidates may not achieve market acceptance among clinicians, patients, patient advocacy groups, healthcare payors and the general medical community. With respect to AR101, which we intend to market as a means of obtaining protection from accidental exposure to peanut protein and not as a cure for peanut allergy, we anticipate that clinicians will continue to recommend that their patients strictly avoid foods that may contain any amount of peanut protein and continue to carry epinephrine auto-injectors even if the patients have been successfully desensitized with AR101. As a result, if we are unable to persuade clinicians, patients, caregivers and payors that AR101 has therapeutic value when used in conjunction with the practice of avoidance, our sales will be adversely affected.

In addition, we may face challenges in gaining market acceptance as a result of our therapeutic approach, which exposes patients to the exact allergen that poses a risk of causing a severe allergic reaction.

Many clinicians believe that previous oral immunotherapy approaches to the treatment of peanut allergy are too unsafe or unreliable to use in clinical practice. We are also susceptible to changes in the public perception of the safety and efficacy of desensitization treatments. For example, if a competitor's desensitization treatment similar to our own had significant safety issues, perceptions of our products could also be negatively impacted even if our product did not have similar safety issues. If we are unable to convince clinicians and their patients that AR101 is safe and reliable, our sales will be adversely affected.

Furthermore, market acceptance of AR101 or any future product candidates for which we receive approval depends on a number of factors, including:

- the efficacy of the product as demonstrated in clinical trials;
- the frequency and severity of any adverse effects and overall safety profile of the product;
- the clinical indication for which the product is approved including any limitations on the patient population for which it is indicated;
- acceptance by clinicians and patients of the product as a safe and effective treatment and their perceptions of the benefit of the product;
- the evaluation of our products by governmental health technology assessment organizations;
- the relative convenience and ease of administration of our products, including patients' acceptance of the need to take our product candidates mixed with food;
- patient and parent acceptance of our product's form factor and packaging;
- the willingness of patients to comply with a treatment regimen that requires daily administration of our product candidates on a chronic basis;
- the potential and perceived advantages of our product candidates over current treatment options or alternative treatments, including future alternative treatments;
- the cost of treatment in relation to alternative treatments and willingness to pay for our products, if approved, on the part of clinicians and patients;
- the availability of products and their ability to meet market demand, including a reliable supply for long-term daily treatment;
- the strength of our marketing and distribution organizations;
- the quality of our relationships with patient advocacy groups; sufficient third-party coverage or reimbursement for our product candidates; and
- sufficient third-party payments to clinicians for the procedures necessary to administer product candidates.

Any failure by our product candidates that obtain regulatory approval to achieve market acceptance or commercial success would adversely affect the results of our operations.

AR101, if approved, or any future product candidates may face significant competition and our failure to effectively compete may prevent us from achieving significant market penetration.

The pharmaceutical market is highly competitive and dynamic, and is characterized by rapid and substantial technological development and product innovations. In particular, we compete in the segments of the pharmaceutical, biotechnology and other related markets that address the treatment of food allergies. As a result, we may face competition from many pharmaceutical and biotechnology companies, with considerably more resources and experience than we have, that are researching and selling products designed to treat food allergies or allergies in general. We are aware that DBV Technologies S.A. is developing a treatment for peanut allergy, which is currently being evaluated in a Phase 3 clinical trial. Many of our competitors have materially greater financial, manufacturing, marketing, research and drug development resources than we do. Large pharmaceutical and biotechnology companies in particular have extensive expertise in nonclinical and clinical testing and in obtaining regulatory approvals for drugs. In addition, academic institutions, government agencies and other public and private organizations conducting research may seek patent protection with respect to potentially competitive products or technologies. These organizations may also establish exclusive collaborative or licensing relationships with our competitors. Failure to effectively compete against future products approved for the treatment of peanut allergy could harm our business and results of operations.

In addition, we may face competition from clinicians who provide oral immunotherapy to patients using commercially available source material. If we are unable to convince clinicians, patients and caregivers, that our products have advantages over these self-developed approaches to oral immunotherapy, our business and results of operation could be materially adversely affected.

AR101 and any future product candidates are regulated as biological products, or biologics, which may subject them to competition sooner than anticipated.

With the enactment of the Biologics Price Competition and Innovation Act of 2009, or BPCIA, as part of the Affordable Care Act, an abbreviated pathway for the approval of biosimilar and interchangeable biological products was created. The abbreviated regulatory pathway establishes legal authority for the FDA to review and approve biosimilar biologics, including the possible designation of a biosimilar as “interchangeable” based on its similarity to an existing brand product. To be considered biosimilar, a product candidate must be highly similar to the reference product notwithstanding minor differences in clinically inactive components. In addition, there can be no clinically meaningful differences between the product candidate and the reference product in terms of the safety, purity and potency of the product. For the FDA to approve a biosimilar product as interchangeable with a reference product, the agency must find that the biosimilar product can be expected to produce the same clinical results as the reference product, and (for products administered multiple times) that the biologic and the reference biologic may be switched after one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of the reference biologic. We believe that the concentrations of relevant proteins in the peanut flour we source pursuant to our exclusive contract with GPC are significantly different from the concentrations of proteins found in other commercially available sources of peanut flour, and that a product candidate using different concentrations of such proteins or different proteins might not be considered “highly similar” to AR101 by the FDA. In that case, such a product candidate would not be eligible for the biosimilar approval pathway. However, there can be no guarantee that the FDA would agree with this interpretation. Indeed, the BPCIA is complex and is still being interpreted and implemented by the FDA. As a result, its ultimate impact, implementation and meaning are subject to uncertainty. While it is uncertain when such processes intended to implement the BPCIA may be fully adopted by the FDA, any such processes could have a material adverse effect on the future commercial prospects for our biological product candidates.

Under the BPCIA, no approval of an application for a biosimilar product may be made effective until 12 years after the original branded product is first licensed by the FDA pursuant to the approval of a BLA. We believe that if the FDA approves a BLA for AR101, AR101 should qualify for this 12-year period of market exclusivity, known as reference product exclusivity, such that no approval of a biosimilar version of our product could become effective prior to the expiration of that 12-year period. However, these exclusivity provisions have been subject to various interpretations that have not yet been fully addressed by the FDA, and there is a risk that this exclusivity could be shortened due to congressional action or otherwise, or that the FDA will not consider AR101 to be eligible for reference product exclusivity, potentially creating the opportunity for competition sooner than anticipated. In addition, even if AR101 were to receive reference product exclusivity, a competitor may seek approval of a product candidate under a full BLA rather than a biosimilar product application. In such a case, although the competitor would not enjoy the benefits of the abbreviated pathway for biosimilar approval created under the BPCIA, the FDA would not be precluded from making effective an approval of the competitor product pursuant to a BLA prior to the expiration of our 12-year period of marketing exclusivity.

In addition, the extent to which a biosimilar, once approved, will be substituted for any one of our reference products in a way that is similar to traditional generic substitution for non-biological products is not yet clear. In particular, it is unclear at this juncture whether products deemed “interchangeable” by the FDA will, in fact, be readily substituted by pharmacies. Such substitution will depend on a number of marketplace and regulatory factors that are still developing.

We currently have no sales organization or distribution network. If we are unable to establish sales capabilities and a distribution network on our own or through third parties, we may not be able to market, sell and distribute AR101, if approved, or any future product candidates or generate product revenue.

We currently do not have a sales organization. In order to commercialize AR101, we will need to build our marketing, sales, distribution, managerial and other non-technical capabilities or make arrangements with third parties to perform these services, and we may not be successful in doing so. If AR101 receives regulatory approval, we expect to establish a specialty sales organization with technical expertise and supporting distribution capabilities to commercialize our product candidates, which will be expensive and time-consuming.

We have no prior experience in the marketing, sale and distribution of pharmaceutical products and there are significant risks involved in building and managing a sales organization, including our ability to hire, retain, and incentivize qualified individuals, generate sufficient sales leads, provide adequate training to sales and marketing personnel, and effectively manage a geographically dispersed sales and marketing team. Any failure or delay in the development of our internal sales, marketing and distribution capabilities would adversely impact the commercialization of these products. Further, given our lack of prior experience in marketing, selling and distributing pharmaceutical products, our estimates of the number of sales representatives needed to commercialize AR101 may be materially less than the actual number of sales representatives required. As such, we may be required to hire substantially more sales representatives to adequately support the commercialization of AR101, which could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

We may choose to collaborate with third parties that have direct sales forces or established distribution systems, either to augment our own sales force and distribution systems or in lieu of our own sales force and distribution systems. If we are unable to enter into such arrangements on acceptable terms or at all, we may not be able to successfully commercialize AR101. If we are not successful in commercializing AR101 or any future product candidates, either on our own or through collaborations with one or more third parties, our future product revenue will suffer and we would incur significant additional losses.

Any product candidate that we are able to commercialize may become subject to unfavorable pricing regulations, third-party coverage or reimbursement policies.

Significant uncertainty exists as to the coverage and reimbursement status of any drug candidates for which we obtain regulatory approval. Our ability to commercialize any products successfully in the United States will depend in part on the extent to which coverage and reimbursement for these products becomes available from third-party payors, including government health administration authorities, such as those that administer the Medicare and Medicaid programs, and private health insurers. Third-party payors are generally able to affect the utilization of drugs by a variety of mechanisms, including deciding which medications they will cover, determining the amount they will pay for a product, establishing which formulary tier to place the drug on that may result in, among other things, greater out-of-pocket costs to patients, and creating pre-authorization procedures. A primary trend in the U.S. healthcare industry is cost containment. Coverage, reimbursement, out-of-pocket costs to patients, and pre-authorization requirements may impact the demand for any product for which we obtain marketing approval. Increasingly, third-party payors are requiring that companies provide them with predetermined discounts from list prices and are challenging the prices charged for medical products. If coverage and reimbursement are not available or are available only at limited levels, we may not be able to successfully commercialize any product candidate that we successfully develop.

There may be significant delays in obtaining coverage and reimbursement for approved products, and coverage may be more limited than the purposes for which the product is approved by the FDA. Moreover, eligibility for reimbursement does not imply that any product will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale and distribution. Interim payments for new products, if applicable, may also not be sufficient to cover our costs and may not be made permanent. Payment rates may vary according to the use of the product and the clinical setting in which it is used, may be based on payments allowed for lower cost products that are already reimbursed and may be incorporated into existing payments for other services. Net prices for products may be reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future relaxation of laws that presently restrict imports of products from countries where they may be sold at lower prices than in the United States. In the United States, private third-party payors often rely upon Medicare coverage and reimbursement policies and payment limitations in setting their own coverage and reimbursement policies. Our inability to promptly obtain coverage, reimbursement and profitable payment rates from both government funded and private payors for new products that we develop could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

In addition, the anticipated treatment regimen for AR101 and our other products candidates requires a clinician to see the patient every two weeks during the up-dosing portion of the regimen. These appointments may take significant time as the patient has to be monitored for two hours after receiving an increased dose. It is not certain whether the existing reimbursement codes that can be appropriately used for these visits adequately compensate clinicians for the time spent on the visits. We may decide to seek the creation of new codes and associated reimbursement rates to ensure that clinicians are adequately compensated; however, creation of new codes is a complicated and lengthy process and we may not be successful in any such efforts. If appropriate codes and compensation are not available, clinicians may be deterred from offering AR101 to their patients and our business and operating results would be adversely affected.

In addition, under the Medicare program, physician payments are updated on an annual basis according to a statutory formula. Because application of the statutory formula for the update factor would have resulted in a decrease in total physician payments for the past several years, Congress has intervened with interim legislation to prevent the reductions. In April 2015, however, the Medicare Access and CHIP Reauthorization Act of 2015, or MACRA, was signed into law, which repealed and replaced the statutory formula for Medicare payment adjustments to physicians. MACRA provides a permanent end to the annual interim legislative updates that had previously been necessary to delay or prevent significant reductions to payments under the Medicare Physician Fee Schedule. MACRA extended existing payment rates through June 30, 2015, with a 0.5% update for July 1, 2015 through December 31, 2015, and for each calendar year through 2019, after which there will be a 0% annual update each year through 2025. In addition, MACRA requires the establishment of the Merit-Based Incentive Payment System, or MIPS, beginning in 2019, under which physicians may receive performance based payment incentives or payment reductions based on their performance with respect to clinical quality, resource use, clinical improvement activities and meaningful use of electronic health records. MACRA also requires Centers for Medicare & Medicaid Services, or CMS, beginning in 2019, to provide incentive payments for physicians and other eligible professionals that participate in alternative payment models, such as accountable care organizations, that emphasize quality and value over the traditional volume-based fee-for-service model. It is unclear what impact, if any, MACRA will have on our business and operating results, but any resulting decrease in payment may result in reduced demand for our product candidates or additional pricing pressures.

Outside of the United States, the regulations that govern marketing approvals, pricing, coverage and reimbursement for new therapeutic products vary widely from country to country. Some countries require approval of the sale price of a product before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain regulatory approval for a product in a particular country, but then be subject to price regulations that delay or prevent our commercial launch of the product and negatively impact the revenue we are able to generate from the sale of the product in that country. We will need to evaluate clinician compensation mechanisms in each market outside of the United States to determine whether any action needs to be taken to allow for payment of physicians for administration of the treatment regimens.

If product liability lawsuits are brought against us, we may incur substantial liabilities and may be required to limit commercialization of AR101 or any future product candidates, and our existing insurance coverage may not be sufficient to satisfy any liability that may arise.

We face an inherent risk of product liability as a result of the clinical testing of our product candidates and will face an even greater risk if we commercialize any products. For example, we may be sued if any product we develop allegedly causes injury or is found to be otherwise unsuitable during product testing, manufacturing, marketing or sale. In addition, we may be sued if our product fails to protect a patient from exposure to a food allergen. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability and a breach of warranties.

Claims could also be asserted under state consumer protection acts. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our product candidates. Even successful defense would require significant financial and management resources.

Regardless of the merits or eventual outcome, liability claims may result in:

- decreased demand for AR101 or any future product candidates;
- injury to our reputation;
- withdrawal of clinical trial participants;
- costs to defend the related litigation;
- a diversion of management's time and our resources;
- substantial monetary awards to clinical trial participants or patients;
- regulatory investigations, product recalls or withdrawals, or labeling, marketing or promotional restrictions;
- loss of revenue; and
- the inability to commercialize AR101 or any future product candidates.

Our inability to obtain and maintain sufficient product liability insurance at an acceptable cost and scope of coverage to protect against potential product liability claims could prevent or inhibit the commercialization of AR101 or any future products we develop. We currently carry product liability insurance covering use in our clinical trials. Although we maintain such insurance, any claim that may be brought against us could result in a court judgment or settlement in an amount that is not covered, in whole or in part, by our insurance or that is in excess of the limits of our insurance coverage. Our insurance policies also have various exclusions and deductibles, and we may be subject to a product liability claim for which we have no coverage. We will have to pay any amounts awarded by a court or negotiated in a settlement that exceed our coverage limitations or that are not covered by our insurance, and we may not have, or be able to obtain, sufficient capital to pay such amounts. Moreover, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses.

If and when we obtain approval for marketing AR101, we intend to expand our insurance coverage to include the sale of AR101. However, we may be unable to obtain this liability insurance on commercially reasonable terms, if at all.

We will need to significantly increase the size of our organization, and we may experience difficulties in managing growth.

As of June 30, 2016, we had 62 full-time employees. We will need to continue to expand our managerial, operational, finance, clinical, manufacturing, commercial and other resources in order to manage our operations, regulatory filings, manufacturing and supply activities, marketing and commercialization activities, clinical trials and develop and commercialize AR101 or any future product candidates. Our management, personnel, systems and facilities currently in place may not be adequate to support this future growth. Our need to effectively execute our growth strategy requires that we:

- expand our general and administrative, manufacturing, sales, marketing and clinical development organizations;
- identify, recruit, retain, incentivize and integrate additional employees;
- establish the infrastructure necessary to support international operations;
- manage our internal development efforts effectively while carrying out our contractual obligations to third parties; and
- continue to improve our operational, legal, financial and management controls, reporting systems and procedures.

We may be unable to successfully implement these tasks, which could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

If we fail to attract and retain senior management, we may be unable to successfully develop AR101 or any future product candidates, conduct our clinical trials and commercialize AR101 or any future product candidates.

Our success depends in part on our continued ability to attract, retain and motivate highly qualified personnel. In particular, we are highly dependent upon our senior management. The loss of services of any of these individuals could delay or prevent the successful development of our product pipeline, completion of our planned clinical trial or the commercialization of AR101 or any future product candidates. Although we have entered into employment agreements with our senior management team, these agreements do not provide for a fixed term of service.

Although we have not historically experienced unique difficulties attracting and retaining qualified employees, we could experience such problems in the future. For example, competition for qualified personnel in the biotechnology and pharmaceuticals field is intense due to the limited number of individuals who possess the skills and experience required by our industry. We will need to hire additional personnel as we expand our clinical development and manufacturing activities. We may not be able to attract and retain quality personnel on acceptable terms or at all. In addition, to the extent we hire personnel from competitors, we may be subject to allegations that they have been improperly solicited or that they have divulged proprietary or other confidential information, or that their former employers own their research output.

We incur significant costs as a result of operating as a public company, and our management devotes substantial time to new compliance initiatives. We may fail to comply with the rules that apply to public companies, including Section 404 of Sarbanes Oxley, which could result in sanctions or other penalties that would harm our business.

As a new public company, we have and will continue to incur significant legal, accounting and other expenses that we did not incur as a private company, including costs resulting from public company reporting obligations under the Exchange Act and regulations regarding corporate governance practices. The listing requirements of The NASDAQ Global Select Market require that we satisfy certain corporate governance requirements relating to director independence, distributing annual and interim reports, stockholder meetings, approvals and voting, soliciting proxies, conflicts of interest and a code of conduct. Our management and other personnel will need to devote a substantial amount of time to ensure that we comply with all of these requirements. Moreover, the reporting requirements, rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. Any changes we make to comply with these obligations may not be sufficient to allow us to satisfy our obligations as a public company on a timely basis, or at all. These reporting requirements, rules and regulations, coupled with the increase in potential litigation exposure associated with being a public company, could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors or board committees or to serve as executive officers, or to obtain certain types of insurance, including directors' and officers' insurance, on acceptable terms.

In addition, we intend to implement an enterprise resource planning, or ERP, system for our company. An ERP system is intended to combine and streamline the management of our financial, accounting, human resources, sales and marketing and other functions, enabling us to manage operations and track performance more effectively. However, an ERP system would likely require us to complete many processes and procedures for the effective use of the system or to run our business using the system, which may result in substantial costs. Additionally, during the conversion process, we may be limited in our ability to convert any business that we acquire to the ERP. Any disruptions or difficulties in implementing or using an ERP system could adversely affect our controls and harm our business, including our ability to forecast or make sales and collect our receivables. Moreover, such disruption or difficulties could result in unanticipated costs and diversion of management attention.

As a public company, we are subject to Section 404, or Section 404, of the Sarbanes-Oxley Act of 2002, or Sarbanes Oxley, and the related rules of the Securities and Exchange Commission, or SEC, which generally requires our management and independent registered public accounting firm to report on the effectiveness of our internal control over financial reporting. Beginning with the second annual report that we will be required to file with the SEC, Section 404 requires an annual management assessment of the effectiveness of our internal control over financial reporting. However, for so long as we remain an emerging growth company as defined in the JOBS Act, we intend to take advantage of certain exemptions from various reporting requirements that are applicable to public companies that are not emerging growth companies, including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404. Once we are no longer an emerging growth company or, if prior to such date, we opt to no longer take advantage of the applicable exemption, we will be required to include an opinion from our independent registered public accounting firm on the effectiveness of our internal controls over financial reporting. We will remain an emerging growth company until the earlier of (1) December 31, 2020, (2) the last day of the year in which we have total annual gross revenue of at least \$1.0 billion, (3) the last day of the year in which we are deemed to be a “large accelerated filer” as defined in Rule 12b-2 under the Securities Exchange Act of 1934, as amended, or the Exchange Act, which would occur if the market value of our common stock held by non-affiliates exceeded \$700.0 million as of the last business day of the second fiscal quarter of such year or (4) the date on which we have issued more than \$1.0 billion in nonconvertible debt securities during the prior three-year period.

To date, we have never conducted a review of our internal control for the purpose of providing the reports required by these rules. During the course of our review and testing, we may identify deficiencies and be unable to remediate them before we must provide the required reports. For example, during the course of our audit for the years ended December 31, 2013 and 2014, we identified a material weakness in our internal control over financial reporting related to our lack of written policies regarding our accounting function, lack of oversight of account reconciliations, lack of independent review of manual journal entries and inadequate segregation of duties for check writing and wire transfers. While we believe we have fully remediated the material weakness in our internal controls, if additional material weaknesses in our internal controls over financial reporting are identified in the future, we may not detect errors on a timely basis and our financial statements may be materially misstated. We or our independent registered public accounting firm may not be able to conclude on an ongoing basis that we have effective internal control over financial reporting, which could harm our operating results, cause investors to lose confidence in our reported financial information and cause the trading price of our stock to fall. In addition, as a public company we will be required to file accurate and timely quarterly and annual reports with the SEC under the Exchange Act. Any failure to report our financial results on an accurate and timely basis could result in sanctions, lawsuits, delisting of our shares from The NASDAQ Global Select Market or other adverse consequences that would materially harm our business. We anticipate that to meet these new reporting obligations, we will need to implement new finance and accounting systems.

If we are not successful in identifying, developing, acquiring or commercializing additional product candidates, our ability to expand our business and achieve our strategic objectives would be impaired.

Although a substantial amount of our effort will focus on the continued clinical testing, potential approval and commercialization of AR101, an important element of our strategy is to expand our product portfolio by identifying, developing and commercializing additional therapies including therapies using our CODIT system. A key component of our CODIT system is utilizing precisely defined dosages of well-characterized food proteins in order to allow for gradual up dosing. This requires manufacturing stable and standardized drug product, which, for naturally occurring food based drug products, can be complex and difficult especially in low doses. Other than AR101, none of our product candidates have been tested in human clinical trials and many of our potential product candidates are still in the discovery stage. In addition, while we intend to evaluate third-party product candidates and technologies for the treatment of food allergies, we currently have no plans to acquire or in-license any specific product candidate. Our efforts to develop, acquire or in-license product candidates may be unsuccessful for many reasons, including:

- we may not be successful in identifying potential product candidates;
- we may not accurately assess the relative technical feasibility or commercial potential of potential product candidates and may not select the most promising product candidates for development, acquisition or in-licensing;
- competitors may develop alternatives that render our product candidates obsolete or less attractive;

- product candidates we develop, acquire or in-license may nevertheless be covered by third-parties' patents or other exclusive rights;
- the market for a product candidate may change over time so that such a product may become unreasonable to continue to develop;
- a product candidate may on further study be shown to have harmful side effects or other characteristics that indicate it is unlikely to be effective or otherwise does not meet applicable regulatory criteria;
- a product candidate may not be capable of being produced in commercial quantities at an acceptable cost, or at all; and
- a product candidate may not be accepted as safe and effective by clinicians, patients, patient advocacy groups, healthcare payors or the general medical community.

If we fail to develop and successfully commercialize other product candidates, our business and future prospects may be harmed and our business will be more vulnerable to any problems that we encounter in developing and commercializing AR101.

Any collaboration arrangements that we may enter into in the future may not be successful, which could adversely affect our ability to develop and commercialize AR101 and potential future product candidates.

We may seek collaboration arrangements with pharmaceutical or biotechnology companies for the development or commercialization of AR101 and other product candidates depending on the merits of retaining commercialization rights for ourselves as compared to entering into collaboration arrangements. We will face, to the extent that we decide to enter into collaboration agreements, significant competition in seeking appropriate collaborators. Moreover, collaboration arrangements are complex and time-consuming to negotiate, document, implement and maintain. We may not be successful in our efforts to establish and implement collaborations or other alternative arrangements should we so chose to enter into such arrangements. The terms of any collaborations or other arrangements that we may establish may not be favorable to us.

Any future collaborations that we enter into may not be successful. The success of our collaboration arrangements will depend heavily on the efforts and activities of our collaborators. Collaborations are subject to numerous risks, which may include that:

- collaborators have significant discretion in determining the efforts and resources that they will apply to collaborations;
- collaborators may not pursue development and commercialization of our product candidates or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in their strategic focus due to the acquisition of competitive products, availability of funding or other external factors, such as a business combination that diverts resources or creates competing priorities;
- collaborators may delay clinical trials, provide insufficient funding for a clinical trial program, stop a clinical trial, abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our products or product candidates;
- a collaborator with marketing, manufacturing and distribution rights to one or more products may not commit sufficient resources to or otherwise not perform satisfactorily in carrying out these activities;
- we could grant exclusive rights to our collaborators that would prevent us from collaborating with others;
- collaborators may not properly maintain or defend our intellectual property rights or may use our intellectual property or proprietary information in a way that gives rise to actual or threatened litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential liability;
- disputes may arise between us and a collaborator that causes the delay or termination of the research, development or commercialization of our current or future products or that results in costly litigation or arbitration that diverts management attention and resources;
- collaborations may be terminated, and, if terminated, may result in a need for additional capital to pursue further development or commercialization of the applicable current or future products;

- collaborators may own or co-own intellectual property covering our products that results from our collaborating with them, and in such cases, we would not have the exclusive right to develop or commercialize such intellectual property; and
- a collaborator's sales and marketing activities or other operations may not be in compliance with applicable laws resulting in civil or criminal proceedings.

If we engage in acquisitions, we will incur a variety of costs and we may never realize the anticipated benefits of such acquisitions.

Although we currently have no plans to do so, we may attempt to acquire businesses, technologies, services, products or product candidates that we believe are a strategic fit with our business. If we do undertake any acquisitions, the process of integrating an acquired business, technology, service, products or product candidates into our business may result in unforeseen operating difficulties and expenditures, including diversion of resources and management's attention from our core business. In addition, we may fail to retain key executives and employees of the companies we acquire, which may reduce the value of the acquisition or give rise to additional integration costs. Future acquisitions could result in additional issuances of equity securities that would dilute the ownership of existing stockholders. Future acquisitions could also result in the incurrence of debt, contingent liabilities or the amortization of expenses related to other intangible assets, any of which could adversely affect our operating results. In addition, we may fail to realize the anticipated benefits of any acquisition.

If we obtain approval to commercialize AR101 outside of the United States, a variety of risks associated with international operations could materially adversely affect our business.

If we or a collaborator seek to commercialize AR101 outside the United States, we expect that we will be subject to additional risks related to entering into these international markets or business relationships, including:

- different regulatory requirements for drug approvals in foreign countries;
- different approaches by reimbursement agencies regarding the assessment of the cost effectiveness of AR101;
- differing U.S. and foreign drug import and export rules;
- reduced protection for intellectual property rights in certain foreign countries;
- unexpected changes in tariffs, trade barriers and regulatory requirements;
- different reimbursement systems for food allergy medications and for clinicians treating food allergy patients;
- economic weakness, including inflation, or political instability in particular foreign economies and markets;
- compliance with tax, employment, immigration and labor laws for employees living or traveling abroad;
- foreign taxes, including withholding of payroll taxes;
- foreign currency fluctuations, which could result in increased operating expenses and reduced revenues, and other obligations incident to doing business in another country;
- workforce uncertainty in countries where labor unrest is more common than in the United States;
- production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad;
- potential liability resulting from activities conducted on our behalf by distributors or other vendors we engage; and
- business interruptions resulting from geopolitical actions, including war and terrorism, or natural disasters.

The results of the United Kingdom's referendum on withdrawal from the European Union may have a negative effect on global economic conditions, financial markets and our business.

In June 2016, a majority of voters in the United Kingdom elected to withdraw from the European Union in a national referendum. The referendum was advisory, and the terms of any withdrawal are subject to a negotiation period that could last at least two years after the government of the United Kingdom formally initiates a withdrawal process. Nevertheless, the referendum has created significant uncertainty about the future relationship between the United Kingdom and the European Union, including with respect to the laws and regulations that will apply as the United Kingdom determines which European Union laws to replace or replicate in the event of a withdrawal. The referendum has also given rise to calls for the governments of other European Union member states to consider withdrawal. These developments, or the perception that any of them could occur, have had and may continue to have a

material adverse effect on global economic conditions and the stability of global financial markets, and may significantly reduce global market liquidity and restrict the ability of key market participants to operate in certain financial markets.

We have ongoing business in the United Kingdom and the European Union. Our ongoing PALISADE phase 3 clinical trial for AR101 includes clinical sites in the United Kingdom and other European Union member nations. We have employees located in the United Kingdom. Currently, our only European subsidiary is incorporated in England and Wales. Any MAA for AR101 or any other product candidate that we may file in the future must be filed by an entity located in a European Union member nation. The lack of clarity about future United Kingdom laws and regulations, as the United Kingdom determines which European Union laws to replace or replicate in the event of a withdrawal, includes regulations related to clinical trials, marketing authorization for drug products, intellectual property rights and employment and labor matters. A lack of clarity in these areas, which are central to the development of our product candidates in the United Kingdom and the European Union and our ongoing business activities in the United Kingdom, may cause operational and strategic uncertainty for us as we consider the timing of and requirements for approval in the United Kingdom for AR101 and the effect of a potential withdrawal on our employees located in the United Kingdom.

Our business involves the use of hazardous materials and we and our third-party manufacturers and suppliers must comply with environmental laws and regulations, which can be expensive and restrict how we do business.

Our research and development activities and our third-party manufacturers' and suppliers' activities involve the controlled storage, use and disposal of hazardous materials. We and our manufacturers and suppliers are subject to laws and regulations governing the use, manufacture, storage, handling and disposal of these hazardous materials. In some cases, these hazardous materials and various wastes resulting from their use are stored at our and our manufacturers' facilities pending their use and disposal. We cannot eliminate the risk of contamination, which could cause an interruption of our commercialization efforts, research and development efforts and business operations, environmental damage resulting in costly clean up and liabilities under applicable laws and regulations governing the use, storage, handling and disposal of these materials and specified waste products. Although we believe that the safety procedures utilized by our third-party manufacturers for handling and disposing of these materials generally comply with the standards prescribed by these laws and regulations, we cannot guarantee that this is the case or eliminate the risk of accidental contamination or injury from these materials. In such an event, we may be held liable for any resulting damages and such liability could exceed our resources and governmental authorities may curtail our use of certain materials and/or interrupt our business operations. Furthermore, environmental laws and regulations are complex, change frequently and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. We do not currently carry biological or hazardous waste insurance coverage. Any of the foregoing risks could have a material adverse impact on our business.

Unfavorable global economic conditions could adversely affect our business, financial condition or results of operations.

Our results of operations could be adversely affected by general conditions in the global economy and in the global financial markets. The recent global financial crisis caused extreme volatility and disruptions in the capital and credit markets. A severe or prolonged economic downturn, such as the recent global financial crisis, could result in a variety of risks to our business, including reduced ability to raise additional capital when needed on acceptable terms, if at all. A weak or declining economy could also strain our suppliers, possibly resulting in supply disruption. Any of the foregoing could have a materially adverse impact on our business and we cannot anticipate all of the ways in which the current economic climate and financial market conditions could adversely impact our business.

We or the third parties upon whom we depend may be adversely affected by earthquakes or other natural disasters and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.

Our corporate headquarters is located in the San Francisco Bay Area, which in the past has experienced severe earthquakes. We do not carry earthquake insurance. Earthquakes or other natural disasters could severely disrupt our operations, and could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

If a natural disaster, power outage or other event occurred that prevented us from using all or a significant portion of our headquarters, that damaged critical infrastructure, such as our enterprise financial systems or manufacturing resource planning and enterprise quality systems, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place currently are limited and are unlikely to prove adequate in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which, particularly when taken together with our lack of earthquake insurance, could have a material adverse effect on our business.

Furthermore, our contract manufacturers and integral parties in our supply chain, are operating from single sites, increasing their vulnerability to natural disasters or other sudden, unforeseen and severe adverse events. In particular, the manufacturing facility is

located in Florida, which in the past has experienced severe hurricanes. If hurricanes or other natural disasters were to affect our contract manufacturer or our supply chain, it could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

Our internal computer systems, or those of our CROs or other contractors or consultants, may fail or suffer security breaches, which could result in a material disruption of our drug development programs.

Despite the implementation of security measures, our internal computer systems and those of our CROs and other contractors and consultants are vulnerable to damage from computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. While we have not experienced any such system failure, accident or security breach to date, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our drug development programs. For example, the loss of clinical trial data from completed or ongoing clinical trials for any of our product candidates could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach were to result in a loss of or damage to our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability and the further development of our product candidates could be delayed.

Our product development programs for candidates may require substantial financial resources and may ultimately be unsuccessful.

In addition to the development of AR101, we are pursuing development of our other early-stage development programs. Our current early-stage development programs are still in the pre-clinical formulation phase and may not result in product candidates we can advance to the clinical development phase. None of our other potential product candidates have commenced clinical trials, and there are a number of FDA and foreign regulatory requirements that we must satisfy before we can commence these clinical trials. Satisfaction of these requirements will entail substantial time, effort and financial resources, and we may never satisfy these requirements. In May 2016, we determined that our egg allergy program requires further product development, and we now expect to submit an IND for our second food allergy program in 2017, which could be egg or another food allergy program. Any time, effort and financial resources we expend on our other early-stage development programs may adversely affect our ability to continue development and commercialization of AR101 product candidates, and we may never commence clinical trials of such development programs despite expending significant resources in pursuit of their development. Even if we do commence clinical trials of our other potential product candidates, such product candidates may never be approved by the FDA or the foreign regulatory authorities.

Risks Related to Government Regulation

The regulatory approval process is highly uncertain and we may not obtain regulatory approval for the commercialization of AR101 or any future product candidates.

The research, testing, manufacturing, labeling, approval, selling, import, export, marketing and distribution of biologics are subject to extensive regulation by the FDA and other regulatory authorities in the United States and other countries, which regulations differ from country to country.

Neither we nor any future collaboration partner will be permitted to market AR101 or any future product candidate in the United States until we receive approval of a BLA from the FDA, and we will not be permitted to market AR101 in other countries until similar regulatory approvals are obtained in those countries. We have not submitted an application or obtained marketing approval for AR101 anywhere in the world and will not be able to do so until we complete additional clinical trials. Obtaining regulatory approval of a BLA in the United States and similar applications in other countries can be a lengthy, expensive and uncertain process. In addition, failure to comply with FDA and other applicable United States and foreign regulatory requirements may subject us to administrative or judicially imposed sanctions or other actions, including:

- warning letters;
- civil and criminal penalties;
- injunctions;
- withdrawal of regulatory approval of products;
- product seizure or detention;
- product recalls;

- total or partial suspension of production; and
- refusal to approve pending BLAs or supplements to approved BLAs.

Prior to obtaining approval to commercialize a product candidate in the United States or abroad, we or our collaborators must demonstrate with substantial evidence from well-controlled clinical trials, and to the satisfaction of the FDA or other foreign regulatory authorities, that such product candidates are safe, pure, potent and effective for their intended uses. The number of nonclinical studies and clinical trials that will be required for FDA approval varies depending on the product candidate, the disease or condition that the product candidate is designed to address, and the regulations applicable to any particular product candidate. Results from nonclinical studies and clinical trials can be interpreted in different ways. Even if we believe the nonclinical or clinical data for our product candidates are promising, regulatory authorities may not agree that such data are sufficient to support approval. Administering product candidates to humans may produce undesirable side effects, which could interrupt, delay or halt clinical trials and result in the FDA or other regulatory authorities denying approval of a product candidate for any or all targeted indications.

Regulatory approval of a BLA or equivalent application in other territories is not guaranteed, and the approval process is expensive and may take several years. The FDA and foreign regulatory authorities also have substantial discretion in the approval process, we may be required to expend additional time and resources to obtain an approval, if any, and any approval we may seek may be delayed or prevented. For example, the FDA or other regulatory authorities may require us to conduct additional clinical trials for AR101 either prior to or post-approval, such as additional trials in specific patient subpopulations or to establish a larger safety database of patients who have been administered AR101. The FDA or other regulatory authority may also object to elements of our clinical development program. Despite the time and expense exerted, failure can occur at any stage.

Regulatory authorities can delay, limit or deny approval of a drug candidate for many reasons, including, but not limited to, the following:

- a drug candidate may not be deemed safe or effective;
- the characterization of the active pharmaceutical ingredient and the data to demonstrate adequate control of the manufacturing process may be deemed insufficient;
- regulatory officials may not find the data from nonclinical studies and clinical trials sufficient;
- the regulatory authorities might not approve our third-party manufacturers' processes or facilities; or
- the regulatory authorities may change its approval policies or adopt new regulations.

If AR101 or any future product candidate fails to demonstrate safety and efficacy in clinical trials or does not gain regulatory approval, our business and results of operations will be materially and adversely harmed. Additionally, if the FDA or other regulatory authorities require that we conduct additional clinical trials, place limitations on AR101 in our label, delay approval to market AR101 or limit the use of AR101, our business and results of operations may be harmed.

Even if we receive regulatory approval for AR101 or any future product candidates, we will be subject to ongoing regulatory obligations and continued regulatory review, which may result in significant additional expense. Additionally, any product candidates, if approved, could be subject to labeling and other restrictions and market withdrawal, and we may be subject to penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our products.

Even if a drug is approved, regulatory authorities may still impose significant restrictions on a product's indicated uses or marketing or impose ongoing requirements for potentially costly post-marketing studies. Furthermore, any new legislation addressing drug safety issues could result in delays or increased costs to assure compliance.

If AR101 is approved it will be subject to ongoing regulatory requirements for labeling, packaging, storage, advertising, promotion, sampling, record-keeping and submission of safety and other post-marketing information, including both federal and state requirements in the United States and the requirements of the regulatory agencies in other countries. In addition, manufacturers and manufacturers' facilities are required to comply with extensive regulatory requirements, including ensuring that quality control and manufacturing procedures conform to current cGMP requirements. As such, we and our contract manufacturers are subject to continual review and periodic inspections to assess compliance with cGMP. Accordingly, we and others with whom we work must continue to expend time, money, and effort in all areas of regulatory compliance, including manufacturing, quality control, and quality assurance. We will also be required to report certain adverse reactions and production problems, if any, to regulatory authorities, and to comply with requirements concerning advertising and promotion for our products. Promotional communications with respect to prescription drugs are subject to a variety of legal and regulatory restrictions and must be consistent with the information in the

product's approved label. As such, we may not promote our products for indications or uses for which they do not have regulatory approval.

If a regulatory authority discovers previously unknown problems with a product, such as adverse events of unanticipated severity or frequency, or problems with the facility where the product is manufactured, or disagrees with the promotion, marketing or labeling of a product, a regulatory authority may impose restrictions on that product or us, including requiring withdrawal of the product from the market. If we fail to comply with applicable regulatory requirements, a regulatory authority or enforcement authority may:

- issue warning letters;
- impose civil or criminal penalties;
- suspend or withdraw regulatory approval;
- suspend any of our ongoing clinical trials;
- refuse to approve pending applications or supplements to approved applications submitted by us;
- impose restrictions on our operations, including closing our contract manufacturers' facilities; or
- seize or detain products or require a product recall.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response, and could generate negative publicity. Any failure to comply with ongoing regulatory requirements may significantly and adversely affect our ability to commercialize and generate revenues from AR101. If regulatory sanctions are applied or if regulatory approval is withdrawn, the value of our company and our operating results will be adversely affected. Additionally, if we are unable to generate revenues from the sale of AR101 our potential for achieving profitability will be diminished and the capital necessary to fund our operations will be increased.

If approved, AR101 or any future products may cause or contribute to adverse medical events that we are required to report to regulatory authorities and if we fail to do so we could be subject to sanctions that would materially harm our business.

Some participants in our clinical trials have reported adverse effects after being treated with AR101. For example, in our ARC001 clinical trial, one patient had an allergic reaction that was attributed to AR101 that required the administration of epinephrine and six patients in our ARC001 clinical trial and four patients in our ARC002 clinical trial who received AR101 dropped out of the clinical trials early in the treatment regimen, before achieving desensitization, due to gastrointestinal side effects. If we are successful in completing the development of, obtaining approval for, and commercializing AR101 or any other products, FDA and foreign regulatory authority regulations require that we report certain information about adverse medical events if those products may have caused or contributed to those adverse events. The timing of our obligation to report would be triggered by the date we become aware of the adverse event as well as the nature of the event. We may fail to report adverse events we become aware of within the prescribed timeframe. We may also fail to appreciate that we have become aware of a reportable adverse event, especially if it is not reported to us as an adverse event or if it is an adverse event that is unexpected or removed in time from the use of our products. If we fail to comply with our reporting obligations, the FDA or a foreign regulatory authority could take action, including criminal prosecution, the imposition of civil monetary penalties, seizure of our products or delay in approval or clearance of future products.

Our failure to obtain regulatory approvals in foreign jurisdictions for AR101 would prevent us from marketing AR101 internationally.

In order to market any product in the European Economic Area, or EEA (which is composed of the 28 Member States of the European Union plus Norway, Iceland and Liechtenstein), and many other foreign jurisdictions, separate regulatory approvals are required. In the EEA, medicinal products can only be commercialized after obtaining a Marketing Authorization, or MA. Before granting the MA, the European Medicines Agency or the competent authorities of the Member States of the EEA make an assessment of the risk benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy.

The approval procedures vary among countries and can involve additional clinical testing, and the time required to obtain approval may differ from that required to obtain FDA approval. A foreign regulatory authority may impose additional requirements prior to the commencement of clinical trials in one country that were not required in other countries, including the United States. Clinical trials conducted in one country may not be accepted by regulatory authorities in other countries. For example, a foreign regulatory authority may determine that our clinical trial results obtained in U.S. subjects are not representative of foreign patient populations and are thus not supportive of an approval outside of the United States. Approval by the FDA does not ensure approval by regulatory authorities in other countries, and approval by one or more foreign regulatory authorities does not ensure approval by

regulatory authorities in other foreign countries or by the FDA. However, a failure or delay in obtaining regulatory approval in one country may have a negative effect on the regulatory process in others. The foreign regulatory approval process may include all of the risks associated with obtaining FDA approval. We may not be able to file for foreign regulatory approvals or do so on a timely basis, and even if we do file we may not receive necessary approvals to commercialize our products in any market.

We may be subject to healthcare laws, regulation and enforcement.

Although we do not currently have any products on the market, once we begin commercializing our products, we will be subject to additional healthcare statutory and regulatory requirements and enforcement by the U.S. by the federal government and the states and by the governments of other countries where we conduct our business. The laws that will affect our ability to operate as a commercial organization include:

- the U.S. federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs. A person or entity does not need to have actual knowledge of this statute or specific intent to violate it to have committed a violation. In addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the false claims laws;
- U.S. federal false claims laws which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other third-party payors that are false or fraudulent;
- U.S. federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of these statutes or specific intent to violate them to have committed a violation;
- the U.S. federal Health Insurance Portability and Accountability Act of 1996, as amended by the Health Information Technology for Economic and Clinical Health Act, which governs the conduct of certain electronic healthcare transactions and protects the security and privacy of protected health information;
- the U.S. federal physician sunshine requirements under the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010, or collectively, the Affordable Care Act, which requires certain manufacturers of drugs, devices, biologics, and medical supplies to report annually to the Centers for Medicare & Medicaid Services, or CMS, information related to payments and other transfers of value to physicians, other healthcare providers, and teaching hospitals, and ownership and investment interests held by physicians and other healthcare providers and their immediate family members;
- state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers;
- state laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the applicable compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources;
- state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways, thus complicating compliance efforts; and
- European and other foreign law equivalents of each of the laws, including reporting requirements detailing interactions with and payments to healthcare providers.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. The risk of our being found in violation of these laws is increased by the fact that many of them have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the laws described above or any other governmental laws and regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, the exclusion from participation in federal and state healthcare programs and imprisonment, any of which could adversely affect our ability to market our products and adversely impact our financial results.

Legislative or regulatory healthcare reforms in the United States may make it more difficult and costly for us to obtain regulatory clearance or approval of our product candidates and to produce, market and distribute our products after clearance or approval is obtained.

From time to time, legislation is drafted and introduced in Congress that could significantly change the statutory provisions governing the regulatory approval, manufacture, and marketing of regulated products or the reimbursement thereof. In addition, FDA regulations and guidance are often revised or reinterpreted by the FDA in ways that may significantly affect our business and our products. Any new regulations or revisions or reinterpretations of existing regulations may impose additional costs or lengthen review times of our product candidates. We cannot determine what effect changes in regulations, statutes, legal interpretation or policies, when and if promulgated, enacted or adopted may have on our business in the future. Such changes could, among other things, require:

- additional clinical trials to be conducted prior to obtaining approval;
- changes to manufacturing methods;
- recall, replacement or discontinuance of one or more of our products; and
- additional record keeping.

Each of these would likely entail substantial time and cost and could materially harm our business and our financial results. In addition, delays in receipt of or failure to receive regulatory clearances or approvals for any future products could have a material adverse effect on our business, results of operations, financial condition, prospects and stock price.

In addition, the full impact of recent healthcare reform and other changes in the healthcare industry and in healthcare spending is currently unknown, and may adversely affect our business model. In the United States, the Affordable Care Act was enacted in 2010 with a goal of reducing the cost of healthcare and substantially changing the way healthcare is financed by both government and private insurers. The Affordable Care Act, among other things, increased the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program and extended the rebate program to individuals enrolled in Medicaid managed care organizations, established annual fees and taxes on manufacturers of certain branded prescription drugs, and created a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period as a condition for the manufacturer's outpatient drugs to be covered under Medicare Part D.

In addition, other legislative changes have been proposed and adopted in the United States since the Affordable Care Act was enacted. On August 2, 2011, the Budget Control Act of 2011 created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.2 trillion for the years 2013 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs. This included aggregate reductions of Medicare payments to providers of 2% per fiscal year, which went into effect on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2025 unless additional Congressional action is taken. On January 2, 2013, the American Taxpayer Relief Act of 2012 was signed into law, which, among other things, further reduced Medicare payments to several providers, including hospitals.

It is likely that federal and state legislatures within the United States and foreign governments will continue to consider changes to existing healthcare legislation. We cannot predict the reform initiatives that may be adopted in the future or whether initiatives that have been adopted will be repealed or modified. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare may adversely affect the demand for any drug products for which we may obtain regulatory approval, our ability to set a price that we believe is fair for our products, our ability to obtain coverage and reimbursement approval for a product, our ability to generate revenues and achieve or maintain profitability, and the level of taxes that we are required to pay.

Neither a Fast-Track designation nor a Breakthrough Therapy designation by the FDA may actually lead to a faster development or regulatory review or approval process.

Even though we do have Fast-Track designation for AR101 for oral immunotherapy of peanut sensitive adults and children and Breakthrough Therapy designation for AR101 for oral immunotherapy of peanut sensitive children and adolescents (ages 4-17), we may not experience a faster development process, review or approval compared to conventional FDA procedures. The FDA may withdraw Fast-Track designation or Breakthrough Therapy designation if it believes that the designation is no longer supported by data from our clinical development program or other sources.

Risks Related to Intellectual Property

If we are unable to obtain and maintain adequate intellectual property protection for AR101 or any future product candidates, we may not be able to compete effectively in our market.

Our commercial success depends in part on our ability to obtain and maintain proprietary or intellectual property protection in the United States and other countries for AR101 and any future product candidates. We intend to rely upon a combination of patents, trademarks, trade secrets and confidentiality agreements to protect our product candidates. Evaluating the strength of patents in the biotechnology and pharmaceutical fields involves complex legal and scientific questions and, as a result, the patent position of biopharmaceutical companies can generally be highly uncertain. Further, any disclosure to or misappropriation by third parties of our confidential or proprietary information could enable competitors to quickly duplicate or surpass our technological achievements, thus eroding our competitive position in our market.

The degree of patent protection we require to successfully commercialize our product candidates may be unavailable or severely limited in some cases and may not adequately protect our rights or permit us to gain or maintain any competitive advantage. Though we currently own a single issued patent in the United States covering certain of our manufacturing methods for AR101, we do not anticipate that we will be able to obtain a composition of matter patent over the active pharmaceutical ingredient in AR101 or for any other product candidates that are based on widely or readily available food products. Although we have filed patent applications that relate to the manufacture, formulation, stability and other aspects of AR101 and certain of our other product candidates, only one patent, covering certain of our manufacturing methods for AR101, has been issued in the United States. We cannot assure our stockholders that they will result in any additional issued patents in the U.S. or foreign countries. Even if any such additional patents issue, we cannot assure our stockholders that they or any other patents we obtain will include any claims with a scope sufficient to protect AR101 or any other future product candidate or otherwise provide us with meaningful protection or competitive advantage.

The patent prosecution process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States. Furthermore, patents have a limited lifespan. In the United States, the natural expiration of a patent is generally twenty years after it is filed. Various extensions may be available; however, the life of a patent, and the protection it affords, is limited. Given the amount of time required for the development, testing and regulatory review of new drug candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. If we encounter delays in our clinical trials or other delays during the regulatory approval process, even if we obtain patents covering AR101 or other product candidates, the period of time during which we could exclusively market AR101 or such other product candidates under such patents would be reduced. As a result, any patents we obtain may not provide us with adequate and continuing patent protection sufficient to exclude others from commercializing products similar or identical to our product candidates, including generic versions of such products.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, and therefore, to the extent that we acquire patent protection with respect to AR101 or other product candidates, third parties may still challenge our patents in the courts or patent offices in the United States and abroad. Any issued patents we obtain could be narrowed, invalidated, held unenforceable or circumvented, any of which could limit our ability to prevent competitors and other third parties from developing and marketing similar products or limit the length of terms of patent protection we may obtain for our product candidates. Competitors or other third parties may also claim that they invented the inventions claimed in our patent applications, or any patents that may issue in the future, prior to us, or may file patent applications before we do. Further, our competitors might conduct research and development activities in countries where we do not have patent rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets. Such challenges may also result in our inability to manufacture or commercialize our future products, including AR101, without infringing third-party patent rights. If the breadth or strength of protection provided by any patents we obtain with respect to AR101 or any future product candidates is successfully challenged, then our ability to commercialize AR101 or any future product candidates could be negatively affected, and we may face unexpected competition that could have a material adverse impact on our business.

Even if they are unchallenged, any patents issuing from our pending patent applications may not adequately protect our intellectual property or prevent others from designing around our claims to circumvent those patents by developing similar or alternative technologies or drugs in a non-infringing manner. For example, a third party may develop a competitive product that provides benefits similar to AR101 or a future product candidate but falls outside the scope of our patent protection. If the patent protection covering our product candidates is not sufficiently broad to impede such competition, our ability to successfully commercialize our product candidates could be negatively affected, which would harm our business.

In addition, we may in the future be subject to claims by our former employees or consultants asserting an ownership right in our patents or patent applications, as a result of the work they performed on our behalf. Although we generally require all of our employees, consultants and advisors and any other third parties who have access to our proprietary know-how, information or technology to assign their inventions to us, we cannot be certain that we have executed such agreements with all parties who may have contributed to our intellectual property, nor can we be certain that our agreements with such parties will be upheld in the face of a potential challenge, or that they will not be breached, for which we may not have an adequate remedy.

We may become subject to claims alleging infringement of third-party patents or proprietary rights, the outcome of which could result in delay or prevent the development and commercialization of AR101 or any future product candidates or otherwise prevent us from competing effectively in our market.

Our commercial success depends upon our ability and the ability of our collaborators to develop, manufacture, market and sell our drug candidates and use our proprietary technologies without infringing or otherwise violating the proprietary rights and intellectual property of third parties. The biotechnology and pharmaceutical industries are characterized by extensive and frequent litigation regarding patents and other intellectual property rights. Third parties, including our competitors, may initiate legal proceedings against us or our collaborators alleging that we are infringing or otherwise violating their patent or other intellectual property rights. Given the vast number of patents in our field of technology, we cannot assure our stockholders that AR101 or any future product candidates we develop will not infringe existing patents or patents that may be granted in the future. Because patent applications can take many years to issue and may be confidential for 18 months or more after filing, and because pending patent claims can be revised before issuance, there may be applications now pending of which we are unaware that may later result in issued patents that may be infringed by the manufacture, use or sale of AR101 or any future product candidates. If a patent holder believes our drug product candidate infringes on its patent, the patent holder may sue us even if we have received patent protection for our technology.

If a patent infringement suit were brought against us or any future collaborators, we or they could be forced to stop or delay the research, development, manufacturing or sales of the product or product candidate that is the subject of the suit. Defending any such claims would cause us to incur substantial expenses of financial and other resources and, if unsuccessful, we could be forced to pay substantial damages, including treble damages and attorney's fees if we are found to have willfully infringed a third-party patent. Furthermore, we may be required to indemnify our collaborators against such claims.

We may choose to seek, or may be required to seek, a license from the third-party patent holder and would most likely be required to pay license fees or royalties or both, each of which could be substantial. These licenses may not be available on commercially reasonable terms, however, or at all. Even if we were able to obtain a license, the rights we obtain may be nonexclusive, which would provide our competitors access to the same intellectual property rights upon which we are forced to rely. Ultimately, we could be prevented from commercializing a product, or forced to redesign it, or to cease aspects of our business operations if, as a result of actual or threatened patent infringement claims, we or our collaborators are unable to enter into licenses on acceptable terms. Even if we are successful in defending against any infringement claims, litigation is expensive and time-consuming and is likely to divert management's attention and substantial resources from our core business, which could harm our business.

We may become involved in lawsuits to protect or enforce our patents and other intellectual property rights, the outcome of which would be uncertain and could have a material adverse effect on the success of our business.

Competitors and other third parties may infringe, misappropriate or otherwise violate any patents we obtain or other intellectual property rights. To counter infringement or unauthorized use, we may be required to initiate infringement proceedings, which can be expensive and time-consuming. A court may disagree with our allegations, however, and may refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the third-party technology in question. Further, such third parties could counterclaim that we infringe their intellectual property or that a patent we have asserted against them is invalid or unenforceable. In patent litigation in the United States, defendant counterclaims challenging the validity, enforceability or scope of asserted patents are commonplace.

In addition, third parties may initiate their own legal proceedings against us to assert such challenges to our intellectual property rights. For example, we may be subject to a third-party submission of prior art to the United States Patent and Trademark Office, or USPTO, challenging the priority of an invention claimed within any patents we may obtain. Such third-party prior art submissions may also be made prior to a patent's issuance, precluding such issuance at all. We may become involved in opposition, derivation, reexamination, *inter partes* review, post-grant review or interference proceedings challenging our patent rights or the patent rights of others from whom we have obtained licenses to such rights. We may also become involved in similar opposition proceedings in the European Patent Office or similar offices in other jurisdictions regarding our intellectual property rights.

The outcome of any such proceeding is generally unpredictable. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness or non-enablement. Patents may be unenforceable if someone connected with prosecution of the patent withheld relevant information from the USPTO or made a misleading statement during prosecution. It is possible that prior art of which we and the patent examiner were unaware during prosecution exists, which could render any patents we obtain invalid. Moreover, it is also possible that prior art may exist that we are aware of but do not believe is relevant to patents we may obtain, but that could nevertheless be determined to render such patents invalid. An adverse result in any litigation or other proceeding to defend or enforce any patents we may obtain could put one or more of such patents at risk of being invalidated, held unenforceable, or interpreted narrowly. If a defendant were to prevail on a legal assertion of invalidity or unenforceability of any patents we obtain covering AR101 or future product candidates, we would lose at least part, and perhaps all, of any patent protection covering such product candidate, which would materially impair our competitive position.

Intellectual property litigation could cause us to spend considerable resources and would be likely to distract our personnel from their normal responsibilities.

Litigation or other legal proceedings relating to intellectual property claims, with or without merit, is unpredictable and generally expensive and time-consuming and is likely to divert significant resources from our core business, including distracting our technical and management personnel from their normal responsibilities. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities.

We may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources and more mature and developed intellectual property portfolios. Accordingly, despite our efforts, we may not be able to prevent third parties from infringing upon or misappropriating or from successfully challenging our intellectual property rights. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace.

Changes in U.S. patent law could diminish the value of patents in general, thereby impairing our ability to protect our products.

As is the case with other biopharmaceutical companies, our success is heavily dependent on intellectual property, including patents. Obtaining and enforcing patents in the biopharmaceutical industry involve both technological and legal complexity. Therefore, obtaining and enforcing biopharmaceutical patents is costly, time consuming and inherently uncertain. Recent patent reform legislation in the United States and other countries, including the Leahy-Smith America Invents Act, or Leahy-Smith Act, signed into law on September 16, 2011, could increase those uncertainties and costs. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted, redefine prior art and provide more efficient and cost-effective avenues for competitors to challenge the validity of patents. In addition, the Leahy-Smith Act has transformed the U.S. patent system into a “first-to-file” system. The first-to-file provisions, however, only became effective on March 16, 2013. Accordingly, it is not yet clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could make it more difficult to obtain patent protection for our technology and could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of any patents we obtain, all of which could harm our business, results of operations and financial condition.

The United States Supreme Court has ruled on several patent cases in recent years, either narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents once obtained. Depending on future actions by the U.S. Congress, the federal courts, and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce any patents that we might obtain in the future.

Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

The USPTO and various foreign patent agencies require compliance with a number of procedural, documentary, fee payment and other provisions to maintain patent applications and issued patents. In addition, periodic maintenance fees and various other governmental fees on patents and patent applications often must be paid to the USPTO and foreign patent agencies over the lifetime of the patents or for the prosecution of patent applications. While an unintentional lapse can in many cases be cured by payment of a late fee or by other means in accordance with the applicable rules, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. Non-compliance events that could result in abandonment or lapse of a patent or patent application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of fees and failure to properly legalize and submit formal documents. If we fail to maintain the patents and patent applications covering our products or procedures, we may not be able to stop a competitor from marketing products that are the same as or similar to our products, which would have a material adverse effect on our business.

We may not be able to effectively enforce our intellectual property rights throughout the world.

Filing, prosecuting and defending patents on our product candidates in all countries throughout the world would be prohibitively expensive. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions. The requirements for patentability differ, in varying degrees, from country to country. The legal systems of some countries, particularly developing countries, do not favor the enforcement of patent and other intellectual property rights, especially those relating to life sciences. This could make it difficult for us to stop the infringement of any patents we obtain or the misappropriation of our other intellectual property rights. In addition, many countries limit the enforceability of patents against third parties, including government agencies or government contractors. In these countries, patents may provide limited or no benefit. Moreover, our ability to protect and enforce our intellectual property rights may be adversely affected by unforeseen changes in foreign intellectual property laws.

Proceedings to enforce our patent rights in foreign jurisdictions, regardless of whether successful, would result in substantial costs and divert our efforts and attention from other aspects of our business. Furthermore, while we intend to protect our intellectual property rights in our expected significant markets, we cannot ensure that we will be able to initiate or maintain similar efforts in all jurisdictions in which we may wish to market AR101 or any future products. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate, which may have an adverse effect on our ability to successfully commercialize our products in all of our expected significant foreign markets.

If we are unable to protect the confidentiality of our trade secrets and proprietary know-how or if competitors independently develop viable competing products, our business and competitive position may be harmed.

We rely on trade secrets and confidentiality agreements to protect our proprietary know-how and other confidential information related to our development processes and other elements of our technology for which patent protection may not be available or may be difficult to obtain or enforce. Although we require all of our employees to assign their inventions to us, and endeavor to execute confidentiality agreements with all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how and other confidential information related to such technology, we cannot be certain that we have executed such agreements with all parties who may have helped to develop our intellectual property or who had access to our proprietary information, nor can we be certain that our agreements will not be breached.

Monitoring unauthorized uses and disclosures is difficult, and we do not know whether the steps we have taken to protect our proprietary technologies will be effective. We cannot guarantee that our trade secrets and other proprietary and confidential information will not be disclosed or that competitors will not otherwise gain access to our trade secrets. If any of the parties to these confidentiality agreements breaches or violates the terms of such agreements, we may not have adequate remedies for any such breach or violation, and we could lose our trade secrets as a result. Enforcing a claim that a third party illegally obtained and is using our trade secrets, like patent litigation, is expensive and time-consuming, and the outcome is unpredictable. Further, the laws of some foreign countries do not protect proprietary rights to the same extent or in the same manner as the laws of the United States. As a result, we may encounter significant problems in protecting and defending our intellectual property both in the United States and abroad.

Even if we are able to adequately protect our trade secrets and proprietary information, our trade secrets could otherwise become known or could be independently discovered by our competitors. Competitors could purchase our products and attempt to replicate some or all of the competitive advantages we derive from our development efforts, willfully infringe our intellectual property rights, design around our protected technology or develop their own competitive technologies that fall outside of our intellectual property rights. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, in the absence of patent protection, we would have no right to prevent them, or those to whom they communicate, from using that technology or information to compete with us. If our trade secrets are not adequately protected so as to protect our market against competitors' products, our competitive position could be adversely affected, as could our business.

Risks Related to Our Common Stock

Our stock price may be volatile, and investors in our common stock could incur substantial losses.

The trading price of our common stock has been highly volatile and could be subject to wide fluctuations in response to various factors, including the following:

- results of, or delays in, our clinical trials;
- the number, size and type of additional clinical trials or studies that we choose to conduct or the FDA requires us to complete for AR101 prior to or following submission of our BLA and the cost and time of such trials and studies
- regulatory approval or our receipt of a complete response letter to AR101 and our other product candidates, or limitations to specific label indications or patient populations for its use, or changes or delays in the regulatory review process;
- severe adverse events in our trials or in our competitors' trials as a result of exposure to the peanut allergen;
- therapeutic innovations or new products developed by us or our competitors;
- adverse actions taken by regulatory authorities with respect to our clinical trials, manufacturing supply chain or sales and marketing activities;
- changes or developments in laws or regulations applicable to AR101 and our other product candidates;
- any changes to our relationship with any manufacturers or suppliers;
- the success or failure of our efforts to acquire, license or develop additional product candidates;
- any intellectual property infringement actions in which we may become involved;
- announcements concerning our competitors or the pharmaceutical industry in general;
- achievement of expected product sales and profitability;
- manufacturing, supply or distribution delays or shortages;
- acquisitions or significant partnerships by us or our competitors;
- actual or anticipated fluctuations in our operating results;
- changes in financial estimates or recommendations by securities analysts;
- failure to meet financial projections that we or the investment community may provide;
- trading volume of our common stock;
- an inability to obtain additional funding;
- sales of our common stock by us, our executive officers and directors or our stockholders in the future;
- general economic and market conditions and overall fluctuations in the United States equity markets; and
- additions or departures of any of our key scientific or management personnel.

As a result of this volatility, investors may experience losses on their investment in our stock.

In addition, the stock markets in general, and the markets for pharmaceutical, biopharmaceutical and biotechnology stocks in particular, have experienced extreme volatility that may have been unrelated to the operating performance of the issuer. These broad market fluctuations may adversely affect the trading price or liquidity of our common stock. In the past, when the market price of a stock has been volatile, holders of that stock have sometimes instituted securities class action litigation against the issuer. If any of our stockholders were to bring such a lawsuit against us, we could incur substantial costs defending the lawsuit and the attention of our management would be diverted from the operation of our business, which could seriously harm our financial position. Any adverse determination in litigation could also subject us to significant liabilities.

An active market for our common stock may not be maintained

Prior to our IPO in August 2015, there had been no public market for shares of our common stock. Our stock only recently began trading on The NASDAQ Global Select Market, but we can provide no assurance that we will be able to maintain an active trading market on The NASDAQ Global Select Market or any other exchange in the future. If an active market for our common stock does not develop or is not maintained, it may be difficult for our stockholders to sell shares without depressing the market price for the shares or at all. An inactive market may also impair our ability to raise capital by selling shares and may impair our ability to acquire other businesses, applications or technologies using our shares as consideration.

If securities or industry analysts issue an adverse or misleading opinion regarding our stock, our stock price and trading volume could decline.

The trading market for our common stock is influenced by the research and reports that industry or securities analysts publish about us or our business. If any of the analysts who cover us issue an adverse or misleading opinion regarding us, our business model, our intellectual property or our stock performance, or if our clinical trials and operating results fail to meet the expectations of analysts, our stock price would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us regularly, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

Our principal stockholders and management own a significant percentage of our stock and will be able to exert significant control over matters subject to stockholder approval.

As of June, 2016, our executive officers, directors, holders of 5% or more of our capital stock and their respective affiliates beneficially owned approximately 65% of our outstanding common stock. Therefore, these stockholders have the ability to influence us through this ownership position. These stockholders may be able to determine all matters requiring stockholder approval. For example, these stockholders may be able to control elections of directors, amendments of our organizational documents, or approval of any merger, sale of assets, or other major corporate transaction. This may prevent or discourage unsolicited acquisition proposals or offers for our common stock that our stockholders may feel are in their best interest.

Provisions in our charter documents and under Delaware law could discourage a takeover that stockholders may consider favorable and may lead to entrenchment of management.

Our amended and restated certificate of incorporation and amended and restated bylaws contain provisions that could significantly reduce the value of our shares to a potential acquirer or delay or prevent changes in control or changes in our management without the consent of our board of directors. The provisions in our charter documents include the following:

- a classified board of directors with three-year staggered terms, which may delay the ability of stockholders to change the membership of a majority of our board of directors;
- no cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates;
- the exclusive right of our board of directors to elect a director to fill a vacancy created by the expansion of the board of directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on our board of directors;
- the required approval of at least 66 2/3% of the shares entitled to vote to remove a director for cause, and the prohibition on removal of directors without cause;
- the ability of our board of directors to authorize the issuance of shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquiror;
- the ability of our board of directors to alter our bylaws without obtaining stockholder approval;

- the required approval of at least 66 2/3% of the shares entitled to vote at an election of directors to adopt, amend or repeal our bylaws or repeal the provisions of our amended and restated certificate of incorporation regarding the election and removal of directors;
- a prohibition on stockholder action by written consent, which forces stockholder action to be taken at an annual or special meeting of our stockholders;
- the requirement that a special meeting of stockholders may be called only by the chairman of the board of directors, the chief executive officer, the president or the board of directors, which may delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; and
- advance notice procedures that stockholders must comply with in order to nominate candidates to our board of directors or to propose matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquiror from conducting a solicitation of proxies to elect the acquiror's own slate of directors or otherwise attempting to obtain control of us.

In addition, these provisions would apply even if we were to receive an offer that some stockholders may consider beneficial.

We are also subject to the anti-takeover provisions contained in Section 203 of the Delaware General Corporation Law. Under Section 203, a corporation may not, in general, engage in a business combination with any holder of 15% or more of its capital stock unless the holder has held the stock for three years or, among other exceptions, the board of directors has approved the transaction.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware is the exclusive forum for any derivative action or proceeding brought on our behalf, any action asserting a breach of fiduciary duty, any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws, or any action asserting a claim against us that is governed by the internal affairs doctrine. This provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees. Alternatively, if a court were to find this provision in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could adversely affect our business and financial condition.

We provide broad indemnity to our directors and officers. Claims for such indemnification may reduce our available funds to satisfy successful third-party claims against us and may reduce the amount of money available to us.

Our amended and restated certificate of incorporation and amended and restated bylaws provide that we will indemnify our directors and officers, in each case to the fullest extent permitted by Delaware law. In addition, as permitted by Section 145 of the Delaware General Corporation Law, our amended and restated bylaws and our indemnification agreements that we have entered into with our directors and officers provide that:

- We will indemnify our directors and officers for serving us in those capacities or for serving other business enterprises at our request, to the fullest extent permitted by Delaware law. Delaware law provides that a corporation may indemnify such person if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the registrant and, with respect to any criminal proceeding, had no reasonable cause to believe such person's conduct was unlawful.
- We may, in our discretion, indemnify employees and agents in those circumstances where indemnification is permitted by applicable law.
- We are required to advance expenses, as incurred, to our directors and officers in connection with defending a proceeding, except that such directors or officers shall undertake to repay such advances if it is ultimately determined that such person is not entitled to indemnification.
- We will not be obligated pursuant to our amended and restated bylaws to indemnify a person with respect to proceedings initiated by that person against us or our other indemnitees, except with respect to proceedings authorized by our board of directors or brought to enforce a right to indemnification.

- The rights conferred in our amended and restated bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons.
- We may not retroactively amend our amended and restated bylaw provisions to reduce our indemnification obligations to directors, officers, employees and agents.

Our ability to utilize our net operating loss carryforwards and certain other tax attributes may be limited.

Under Section 382 of the Internal Revenue Code of 1986, as amended, or the Code, if a corporation undergoes an “ownership change,” generally defined as a greater than 50 percentage point change (by value) in its equity ownership over a rolling three-year period, the corporation’s ability to use its pre-change net operating loss, or NOL, carryforwards to offset its post-change taxable income may be limited. Limitations may also apply to the utilization of other pre-change tax attributes as a result of an ownership change. As of December 31, 2015, we had generated NOL carryforwards for federal income tax purposes of \$24.7 million and for state income tax purposes of \$24.7 million. These federal and state NOL carryforwards will begin to expire in 2031, if not utilized. As described above, our ability to utilize NOL carryforwards or other tax attributes, such as research tax credits, in any taxable year may be limited if we have experienced an ownership change under Section 382 of the Code. Following the issuance of the Series B convertible preferred stock in January and February 2015, we performed a Section 382 analysis and believe that we experienced multiple ownership changes under Section 382 of the Code prior to June 30, 2015 and, as a result, such federal and state NOL carryforwards and our tax credits are subject to limitation. In addition, we may have experienced ownership changes in connection with our IPO and as a result of future changes in our stock ownership, some of which changes may be outside our control. As a result, if we earn net taxable income, our ability to use our pre-change NOL carryforwards to offset post-change taxable income may be subject to limitations. For these reasons, we may not be able to utilize a material portion of our NOL carryforwards and other tax attributes, which could adversely affect our future cash flows.

We do not currently intend to pay dividends on our common stock, and, consequently, our stockholders’ ability to achieve a return on their investment will depend on appreciation in the price of our common stock.

We do not currently intend to pay any cash dividends on our common stock for the foreseeable future. We currently intend to invest our future earnings, if any, to fund our growth. Since we do not intend to pay dividends, our stockholders’ ability to receive a return on their investment in our common stock will depend on any future appreciation in the market value of our common stock. There is no guarantee that our common stock will appreciate or even maintain the price at which our holders have purchased it.

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

a) Sales of Unregistered Securities

None.

b) Use of Proceeds from our Initial Public Offering of Common Stock

On August 5, 2015, our registration statements on Form S-1 (File No. 333-205501) relating to our IPO of common stock became effective.

There has been no material change in the planned use of proceeds from our IPO from that described in the related Prospectus.

c) Repurchases of Shares or of Company Equity Securities

None.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item 6. Exhibits

See the Exhibit Index on the page immediately following the signature page to this Quarterly Report on Form 10-Q for a list of the exhibits filed as part of this Quarterly Report, which Exhibit Index is incorporated herein 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.

Aimmune Therapeutics, Inc.

Date: August 10, 2016

By: /s/ Stephen G. Dilly
Stephen G. Dilly, M.B.B.S., Ph.D.
President and Chief Executive Officer
(Principal Executive Officer)

Aimmune Therapeutics, Inc.

Date: August 10, 2016

By: /s/ Warren L. DeSouza
Warren L. DeSouza
Chief Financial Officer
(Principal Financial and Accounting Officer)

EXHIBIT INDEX

Exhibit Number	Exhibit Description	Incorporated by Reference			Filed Herewith
		Form	Date	Number	
3.1	Amended and Restated Certificate of Incorporation.	8-K	8/11/2015	3.1	
3.2	Amended and Restated Bylaws.	8-K	8/11/2015	3.2	
4.1	Reference is made to Exhibits 3.1 through 3.2.				
4.2	Form of Common Stock Certificate.	S-1/A	7/27/2015	4.2	
10.1#	Executive Employment Agreement, dated April 4, 2016, by and between the Company and Douglas T. Sheehy.	10-Q	5/16/2016		
10.2	Amendment to Manufacturing Facility Lease, dated June 8, 2016, by and between Myerlake, LLC and the Company.				X
10.3#	Executive Employment Agreement, dated June 16, 2016, by and between the Company and Dan Adelman.				X
10.4#	Separation Agreement, dated July 13, 2016, by and between the Company and Robert Elfont.				X
31.1	Certification of Chief Executive Officer required by Rule 13a-14(a) or Rule 15d-14(a).				X
31.2	Certification of Chief Financial Officer required by Rule 13a-14(a) or Rule 15d-14(a).				X
32.1	Certification required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. §1350).				X
101.INS	XBRL Instance Document				X
101.SCH	XBRL Taxonomy Extension Schema Document				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.				X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.				X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.				X

Indicates management contract or compensatory plan.

* The certification attached as Exhibit 32.1 that accompanies this Quarterly Report on Form 10-Q is not deemed filed with the SEC and is not to be incorporated by reference into any filing of Aimmune Therapeutics, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Form 10-Q, irrespective of any general incorporation language contained in such filing.

AMENDMENT TO LEASE BY AND BETWEEN
MYERLAKE, LLC. AND AIMMUNE
THERAPEUTICS, INC. DATED JUNE 8, 2015

THIS AMENDMENT ("Amendment") is made this 5th day of May, 2016, by and between MYERLAKE, LLC., a Florida limited liability company ("Landlord"), and AIMMUNE THERAPEUTICS, INC., a Delaware corporation, ("Tenant"), and is attached to and made a part of the Lease between the parties dated June 8, 2015 (the "Lease").

RECITALS

WHEREAS, Tenant leases the Premises (as such term is defined in the Lease) from the Landlord.

WHEREAS, Landlord and Tenant have agreed to amend and modify certain provisions of the Lease regarding the maintenance and repair of the roof on the Building (as such term is defined in the Lease).

WHEREAS, Landlord and Tenant wish to set forth additional terms and conditions of the Lease as set forth herein.

NOW, THEREFORE, the undersigned parties in consideration of the mutual covenants contained herein and other good and valuable consideration, the sufficiency of which is hereby acknowledged by the undersigned, agree as follows:

1. The Lease by and between Landlord and Tenant shall be amended and modified as set forth herein.
 2. Approval. Landlord does hereby approve and consent to the Tenant applying and installing a roof coating on the roof of the Building and to any future maintenance, repairs and replacement of the roof of the Building as deemed appropriate by Tenant. Tenant agrees that Landlord will not be responsible for any of the expenses associated with the applying the roof coating.
 3. Maintenance and Repairs (Paragraph 16 of the Lease). From the date of this
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Amendment, Tenant shall be responsible for the maintenance, repair and replacement of the roof of the Premises, and anything associated with the roof, including but not limited to gutters and downspouts.

4. The provisions of this Amendment to the Lease are intended to supersede, modify, expand, or supplement the provisions of the Lease. If there is a conflict between the provisions of this Amendment and any provisions of the Lease, then the provisions of this Amendment shall be controlling.
5. Capitalized terms used in this Amendment that are not defined herein shall have the meaning ascribed to such terms in the Lease.
6. All other provisions of the Lease shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Amendment as of the day and year first above written.

Signed and sealed in the presence
of:

LANDLORD:

Myerlake, LLC.,
a Florida limited liability company

/s/ Judy K. Humbarger

/s/ Michael E. Barger

Judy K. Humbarger

By: Michael E. Barger
it's Manager

TENANT:

AIMMUNE THERAPEUTICS, INC.,
a Delaware corporation

/s/ Michael Holfinger

/s/ Jeffrey H. Knapp

Michael Holfinger

By: Jeffrey H. Knapp
it's COO

EXECUTIVE EMPLOYMENT AGREEMENT

This Executive Employment Agreement (the “**Agreement**”) is effective as of June 16, 2016 (the “**Effective Date**”), by and between Dan Adelman (“**Executive**”) and Aimmune Therapeutics, Inc. (the “**Company**”).

WHEREAS, the Company desires to employ Executive as its Chief Medical Officer, and Executive desires to serve in such capacity, pursuant to the terms and conditions set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, it is hereby agreed by and between the parties hereto as follows:

ARTICLE I DEFINITIONS

For purposes of the Agreement, the following terms are defined as follows:

1.1. “**Board**” means the Board of Directors of the Company.

1.2. “**Cause**” means any of the following events:

(a) Executive’s theft, dishonesty or falsification of any employment or Company records that is non-trivial in nature;

(b) Executive’s malicious or reckless disclosure of the Company’s confidential or proprietary information or any material breach by Executive of his obligations under the Employee Confidential Information and Inventions Assignment Agreement;

(c) the conviction of the Executive of a felony (excluding motor vehicle violations) or the commission of gross negligence or willful misconduct, where a majority of the non-employee members of the Board reasonably determines that such act or misconduct has (i) seriously undermined the ability of the Board or management of the Company to entrust Executive with important matters or otherwise work effectively with Executive, (ii) substantially contributed to the Company’s loss of significant revenues or business opportunities, or (iii) significantly and detrimentally affected the business or reputation of the Company or any of its subsidiaries; and/or

(d) the willful failure or refusal by Executive to follow the reasonable and lawful directives of the Board, provided such willful failure or refusal continues after Executive’s receipt of reasonable notice in writing of such failure or refusal and a reasonable opportunity of not less than 30 days to correct the problem.

For the purpose of this Agreement, no act, or failure to act, shall be considered “willful” unless undertaken by Executive with an absence of good faith that this act, or failure to act, was in the best interests of the Company.

1.3. “**CHANGE IN CONTROL**” shall have the meaning set forth in the Company’s 2015 Equity Incentive Award Plan, as may be amended from time to time; provided, that such transaction must also constitute a “change in control event” within the meaning of Treasury Regulation Section 1.409A-3(i)(5).

1.4. “**COBRA**” means the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended.

1.5. “**Code**” means the Internal Revenue Code of 1986, as amended.

1.6. “**Company**” means Aimmune Therapeutics, Inc. or any successor thereto.

1.7. “**COVERED TERMINATION**” means (a) an Involuntary Termination Without Cause or (b) a voluntary termination for Good Reason, in either case, provided that such termination also constitutes a Separation from Service.

1.8. “**EMPLOYEE CONFIDENTIAL INFORMATION AND INVENTIONS ASSIGNMENT AGREEMENT**” means that certain Employee Confidential Information and Inventions Assignment Agreement by and between Executive and the Company, dated as of June 16, 2016.

1.9. “**GOOD REASON**” means any of the following are undertaken without Executive’s prior written consent: (a) a material diminution in Executive’s authority, duties, or responsibilities which substantially reduces the nature or character of Executive’s position with the Company; (b) a material reduction by the Company of Executive’s Base Salary (as defined in Section 3.1 below) as in effect immediately prior to such reduction; (c) a relocation of Executive’s principal office to a location that increases Executive’s one-way commute by more than thirty-five (35) miles, provided, that, for the avoidance of doubt, reasonable required travel by Executive on the Company’s business shall not constitute a relocation; or (d) any material breach by the Company of any provision of this Agreement. Notwithstanding the foregoing, Executive’s resignation shall not constitute a resignation for “Good Reason” as a result of any event described in the preceding sentence unless (A) Executive provides written notice thereof to the Company within thirty (30) days after the first occurrence of such event, (B) to the extent correctable, the Company fails to remedy such circumstance or event within thirty (30) days following the Company’s receipt of such written notice and (C) the effective date of Executive’s resignation for “Good Reason” is not later than thirty (30) days after the expiration of the Company’s cure period under subclause (B).

1.10. “**INVOLUNTARY TERMINATION WITHOUT CAUSE**” means Executive’s dismissal or discharge by the Company other than for Cause. The termination of Executive’s employment as a result of Executive’s death or inability to perform the essential functions of his job due to disability will not be deemed to be an Involuntary Termination Without Cause.

1.11. “**SEPARATION FROM SERVICE**” means Executive’s termination of employment constitutes a “separation from service” within the meaning of Treasury Regulation Section 1.409A-1(h).

**ARTICLE II
EMPLOYMENT BY THE COMPANY**

2.1. Position and Duties. Subject to terms set forth herein, Executive shall be an employee of the Company as of the Effective Date, shall serve in an executive capacity and shall perform such duties as are customarily associated with the position of Chief Medical Officer and such other duties as are assigned to Executive by the Company's Chief Executive Officer. Commencing on the Effective Date and during the term of Executive's employment with the Company, Executive will devote Executive's best efforts and substantially all of Executive's business time and attention (except for vacation periods and reasonable periods of illness or other incapacities permitted by the Company's general employment policies or as otherwise set forth in this Agreement) to the business of the Company.

2.2. Employment at Will. Both the Company and Executive shall have the right to terminate Executive's employment with the Company at any time, with or without cause, and with or without prior notice. Upon certain terminations of Executive's employment with the Company, Executive may become eligible to receive the severance benefits provided in Article IV of this Agreement.

2.3. EMPLOYMENT POLICIES. The employment relationship between the parties shall also be governed by the general employment policies and practices of the Company, including those relating to protection of confidential information and assignment of inventions, except that when the terms of this Agreement differ from or are in conflict with the Company's general employment policies or practices, this Agreement shall control.

**ARTICLE III
COMPENSATION**

3.1. Base Salary. As of the Effective Date, Executive shall receive for services to be rendered hereunder an annual base salary of \$400,000 ("**Base Salary**"), payable on the regular payroll dates of the Company (but no less often than monthly), subject to increase in the sole discretion of the Board or a committee of the Board.

3.2. ANNUAL BONUS. For each calendar year ending during the term of Executive's employment, Executive shall be eligible to receive an annual performance bonus (the "**ANNUAL BONUS**") targeted at thirty five percent (35%) of Base Salary (the "**Target Bonus**"), on such terms and conditions determined by the Board or a committee of the Board. The actual amount of any Annual Bonus (if any) will be determined in the discretion of the Board or a committee of the Board and will be (a) subject to achievement of any applicable bonus objectives and/or conditions determined by the Board or a committee of the Board, (b) subject to Executive's continued employment with the Company through the end of the applicable calendar year to which such Annual Bonus relates, and (c) payable to Executive during the year following the end of the applicable calendar year at the same time as bonuses for other Company executives are paid generally, but in no event later than March 15th of the year following the year to which such Annual Bonus relates. Any Annual Bonus earned during the initial year of employment shall be pro-rated for the partial year of service.

3.3. STANDARD COMPANY BENEFITS . During the term of Executive's employment, Executive shall be entitled to all rights and benefits for which Executive is eligible under the terms and conditions of the standard Company benefits and compensation practices that may be in effect from time to time and are provided by the Company to its executive employees generally. Notwithstanding the foregoing, this Section 3.3 shall not create or be deemed to create any obligation on the part of the Company to adopt or maintain any benefits or compensation practices at any time.

3.4. Equity Awards.

(a) Stock Option. Executive shall be granted an option to purchase (the "Option") Two Hundred Fifty Thousand (250,000) shares of Company common stock effective as of June 24, 2016. The per share exercise price of the Option shall be equal to the per share closing price of the Company's common stock on the date of grant. The Option shall vest and become exercisable with respect twenty-five percent (25%) of the total number of shares subject to the Option on the first anniversary of the Effective Date and with respect to 1/48th of the total number of shares of Company common stock subject to the Option on each monthly anniversary of the Effective Date thereafter, such that the Option shall be fully vested and exercisable on the fourth (4th) anniversary of the Effective Date, in each case, subject to Executive's continuous service to the Company through the applicable vesting date. The Option shall otherwise be subject to the terms of the plan pursuant to which they are granted and an award agreement to be entered into between Executive and the Company.

(b) Future Equity Awards. Following the Effective Date, Executive will be eligible to receive stock options and other equity incentive grants as determined by the Board or a committee of the Board in its sole discretion.

**ARTICLE IV
SEVERANCE AND CHANGE IN CONTROL BENEFITS**

4.1. SEVERANCE BENEFITS. Upon Executive's termination of employment, Executive shall receive any accrued but unpaid Base Salary and other accrued and unpaid compensation, including any accrued but unpaid vacation and Annual Bonus that has been earned with respect to any calendar year ending prior to Executive's termination date, but remains unpaid as of the date of the termination. If the termination is due to a Covered Termination, provided that Executive delivers an effective general release of all claims against the Company and its affiliates in a form acceptable to the Company (a "**Release of Claims**") that becomes effective and irrevocable within sixty (60) days following the Covered Termination, Executive shall also be entitled to receive the severance benefits described in Section 4.1(a) or (b), as applicable.

(a) **COVERED TERMINATION NOT RELATED TO A CHANGE IN CONTROL** If Executive's employment terminates due to a Covered Termination which occurs more than three (3) months prior to a Change in Control or more than twelve (12) months after a Change in Control, Executive shall receive the following:

(i) An amount equal to nine (9) months of Executive's Base Salary payable in substantially equal installments in accordance with the Company's normal payroll policies, less

applicable withholdings, with such installments to commence on the first payroll date following the date on which the Release of Claims becomes effective and irrevocable (such payroll date not to be later than the sixtieth (60th) day following the date of the Covered Termination).

(ii) If Executive elects to receive continued healthcare coverage pursuant to the provisions of COBRA, the Company shall directly pay, or reimburse Executive for, the premium for Executive and Executive's covered dependents through the earlier of (i) the nine (9) month anniversary of the date of Executive's termination of employment and (ii) the date Executive and Executive's covered dependents, if any, become eligible for healthcare coverage under another employer's plan(s). Notwithstanding the foregoing, (i) if any plan pursuant to which such benefits are provided is not, or ceases prior to the expiration of the period of continuation coverage to be, exempt from the application of Section 409A of the Code under Treasury Regulation Section 1.409A-1(a)(5), or (ii) the Company is otherwise unable to continue to cover Executive under its group health plans without penalty under applicable law (including without limitation, Section 2716 of the Public Health Service Act), then, in either case, an amount equal to each remaining Company subsidy shall thereafter be paid to Executive in substantially equal monthly installments. After the Company ceases to pay premiums pursuant to this Section 4.1(a)(ii), Executive may, if eligible, elect to continue healthcare coverage at Executive's expense in accordance with the provisions of COBRA.

(iii) Each outstanding equity award, including, without limitation, each stock option, restricted stock unit award and restricted stock award, held by Executive shall automatically become vested and, if applicable, exercisable and any forfeiture restrictions or rights of repurchase thereon shall immediately lapse, in each case, with respect to that number of shares that would have vested and, if applicable, become exercisable in the six (6) months immediately following Executive's Covered Termination had Executive's employment continued during such six (6) month period. In addition, each stock option held by Executive as of the date of Executive's Covered Termination shall remain exercisable until the earlier of (A) the first anniversary of the date of Executive's Covered Termination or (B) the original expiration date of the stock option.

(b) COVERED TERMINATION RELATED TO A CHANGE IN CONTROL If Executive's employment terminates due to a Covered Termination that occurs within three (3) months prior to a Change in Control or during the twelve (12) month period commencing on a Change in Control, Executive shall receive the following:

(i) Executive shall be entitled to receive an amount equal to the sum of: (i) Executive's Base Salary and (ii) Executive's Target Bonus, in each case, at the rate in effect immediately prior to Executive's termination of employment, payable in a cash lump sum, less applicable withholdings, as soon as administratively practicable following the date on which the Release of Claims becomes effective and, in any event, no later than the sixtieth (60th) day following the date of the Covered Termination.

(ii) If Executive elects to receive continued healthcare coverage pursuant to the provisions of COBRA, the Company shall directly pay, or reimburse Executive for, the premium for Executive and Executive's covered dependents through the earlier of (i) the twelve (12) month anniversary of the date of Executive's termination of employment and (ii) the date Executive and Executive's covered dependents, if any, become eligible for healthcare coverage under another

employer's plan(s). Notwithstanding the foregoing, (i) if any plan pursuant to which such benefits are provided is not, or ceases prior to the expiration of the period of continuation coverage to be, exempt from the application of Section 409A of the Code under Treasury Regulation Section 1.409A-1(a)(5), or (ii) the Company is otherwise unable to continue to cover Executive under its group health plans without penalty under applicable law (including without limitation, Section 2716 of the Public Health Service Act), then, in either case, an amount equal to each remaining Company subsidy shall thereafter be paid to Executive in substantially equal monthly installments. After the Company ceases to pay premiums pursuant to this Section 4.1(b)(ii), Executive may, if eligible, elect to continue healthcare coverage at Executive's expense in accordance with the provisions of COBRA.

(iii) Each outstanding equity award, including, without limitation, each stock option and restricted stock award, held by Executive shall automatically become vested and, if applicable, exercisable and any forfeiture restrictions or rights of repurchase thereon shall immediately lapse, in each case, with respect to one hundred percent (100%) of the shares subject thereto. In addition, each stock option held by Executive as of the date of Executive's Covered Termination shall remain exercisable until the earlier of (A) the first anniversary of the date of Executive's Covered Termination or (B) the original expiration date of the stock option.

4.2. 280G PROVISIONS. Notwithstanding anything in this Agreement to the contrary, if any payment or distribution Executive would receive pursuant to this Agreement or otherwise ("**Payment**") would (a) constitute a "parachute payment" within the meaning of Section 280G of the Code, and (b) but for this sentence, be subject to the excise tax imposed by Section 4999 of the Code (the "**Excise Tax**"), then such Payment shall either be (i) delivered in full, or (ii) delivered as to such lesser extent which would result in no portion of such Payment being subject to the Excise Tax, whichever of the foregoing amounts, taking into account the applicable federal, state and local income taxes and the Excise Tax, results in the receipt by Executive on an after-tax basis, of the largest payment, notwithstanding that all or some portion of the Payment may be taxable under Section 4999 of the Code. The accounting firm engaged by the Company for general audit purposes as of the day prior to the effective date of the Change in Control shall perform the foregoing calculations. The Company shall bear all expenses with respect to the determinations by such accounting firm required to be made hereunder. The accounting firm shall provide its calculations to the Company and Executive within fifteen (15) calendar days after the date on which Executive's right to a Payment is triggered (if requested at that time by the Company or Executive) or such other time as requested by the Company or Executive. Any good faith determinations of the accounting firm made hereunder shall be final, binding and conclusive upon the Company and Executive. Any reduction in payments and/or benefits pursuant to this Section 4.2 will occur in the following order: (1) reduction of cash payments; (2) cancellation of accelerated vesting of equity awards other than stock options; (3) cancellation of accelerated vesting of stock options; and (4) reduction of other benefits payable to Executive.

4.3. Section 409A.

(a) Notwithstanding any provision to the contrary in this Agreement, if Executive is deemed at the time of his Separation from Service to be a "specified employee" for purposes of Section 409A(a)(2)(B)(i) of the Code, to the extent delayed commencement of any portion of the benefits to which Executive is entitled under this Agreement is required in order to avoid a

prohibited distribution under Section 409A(a)(2)(B)(i) of the Code which would subject Executive to a tax obligation under Section 409A of the Code, such portion of Executive's benefits shall not be provided to Executive prior to the earlier of (i) the expiration of the six-month period measured from the date of the Executive's Separation from Service or (ii) the date of Executive's death. Upon the expiration of the applicable Code Section 409A(a)(2)(B)(i) period, all payments deferred pursuant to this Section 4.3(a) shall be paid in a lump sum to Executive, and any remaining payments due under the Agreement shall be paid as otherwise provided herein.

(b) Any reimbursements payable to Executive pursuant to the Agreement shall be paid to Executive no later than 30 days after Executive provides the Company with a written request for reimbursement, and to the extent that any such reimbursements are deemed to constitute "nonqualified deferred compensation" within the meaning of Section 409A of the Code (i) such amounts shall be paid or reimbursed to Executive promptly, but in no event later than December 31 of the year following the year in which the expense is incurred, (ii) the amount of any such payments eligible for reimbursement in one year shall not affect the payments or expenses that are eligible for payment or reimbursement in any other taxable year, and (iii) Executive's right to such payments or reimbursement shall not be subject to liquidation or exchange for any other benefit.

(c) For purposes of Section 409A of the Code (including, without limitation, for purposes of Treasury Regulation Section 1.409A-2(b)(2)(iii)), Executive's right to receive installment payments under the Agreement shall be treated as a right to receive a series of separate payments and, accordingly, each installment payment hereunder shall at all times be considered a separate and distinct payment.

4.4. MITIGATION. Executive shall not be required to mitigate damages or the amount of any payment provided under this Agreement by seeking other employment or otherwise, nor shall the amount of any payment provided for under this Agreement be reduced by any compensation earned by Executive as a result of employment by another employer or by any retirement benefits received by Executive after the date of the Covered Termination, or otherwise.

ARTICLE V PROPRIETARY INFORMATION OBLIGATIONS

5.1. Agreement. Executive agrees to abide by the Employee Confidential Information and Inventions Assignment Agreement.

5.2. REMEDIES. Executive's duties under the Employee Confidential Information and Inventions Assignment Agreement shall survive termination of Executive's employment with the Company and the termination of this Agreement in accordance with its terms. Executive acknowledges that a remedy at law for any breach or threatened breach by Executive of the provisions of the Employee Confidential Information and Inventions Assignment Agreement, as well as Executive's obligations pursuant to Section 6.2 and Article 7 below, would be inadequate, and Executive therefore agrees that the Company shall be entitled to seek injunctive relief in case of any such breach or threatened breach.

ARTICLE VI OUTSIDE ACTIVITIES

6.1. Other Activities.

(a) Except as otherwise provided in Section 6.1(b), Executive shall not, during the term of this Agreement undertake or engage in any other employment, occupation or business enterprise, other than ones in which Executive is a passive investor, unless he obtains the prior written consent of the Board.

(b) Executive may engage in civic and not-for-profit activities so long as such activities do not materially interfere with the performance of Executive's duties hereunder. In addition, Executive shall be allowed to serve as a member of the board of directors of up to two (2) other for-profit entities at any time during the term of this Agreement, so long as such service does not materially interfere with the performance of Executive's duties hereunder; provided, however, that the Board, in its discretion, may require that Executive resign from one or both of such director positions if it determines that such resignation(s) would be in the best interests of the Company.

6.2. **COMPETITION/INVESTMENTS.** During the term of Executive's employment by the Company, except on behalf of the Company, Executive shall not directly or indirectly, whether as an officer, director, stockholder, partner, proprietor, associate, representative, consultant, or in any capacity whatsoever engage in, become financially interested in, be employed by or have any business connection with any other person, corporation, firm, partnership or other entity whatsoever which are known by Executive to compete directly with the Company, throughout the world, in any line of business engaged in (or planned to be engaged in) by the Company; provided, however, that anything above to the contrary notwithstanding, Executive may own, as a passive investor, securities of any competitor corporation, so long as Executive's direct holdings in any one such corporation do not, in the aggregate, constitute more than 1% of the voting stock of such corporation.

ARTICLE VII NONINTERFERENCE

In addition to Executive's obligations under the Employee Confidential Information and Inventions Assignment Agreement, Executive shall not for a period of one (1) year following Executive's termination of employment for any reason, either on Executive's own account or jointly with or as a manager, agent, officer, employee, consultant, partner, joint venturer, owner or stockholder or otherwise on behalf of any other person, firm or corporation, directly or indirectly solicit or attempt to solicit away from the Company any of its officers or employees or offer employment to any person who is an officer or employee of the Company; *provided, however*, that a general advertisement to which an employee of the Company responds shall in no event be deemed to result in a breach of this Article 7. Executive also agrees not to harass or disparage the Company or its employees, clients, directors or agents, and the Company hereby agrees not to, and to instruct its officers and directors not to, harass or disparage Executive. The provisions of this Article 7 shall survive the termination of Executive's employment with the Company and shall be fully enforceable thereafter. If it is determined by a court of competent jurisdiction in any state that any restriction in this Article 7 is excessive in duration or scope or is

unreasonable or unenforceable under the laws of that state, it is the intention of the parties that such restriction may be modified or amended by the court to render it enforceable to the maximum extent permitted by the law of that state.

ARTICLE VIII GENERAL PROVISIONS

8.1. NOTICES. Any notices provided hereunder must be in writing and shall be deemed effective upon the earlier of personal delivery (including personal delivery by facsimile) or the third day after mailing by first class mail, to the Company at its primary office location and to Executive at Executive's address as listed on the Company's books and records.

8.2. TAX WITHHOLDING. Executive acknowledges that all amounts and benefits payable under this Agreement are subject to deduction and withholding to the extent required by applicable law.

8.3. SEVERABILITY. Whenever possible, each provision of this Agreement will be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Agreement is held to be invalid, illegal or unenforceable in any respect under any applicable law or rule in any jurisdiction, such invalidity, illegality or unenforceability will not affect any other provision or any other jurisdiction, but this Agreement will be reformed, construed and enforced in such jurisdiction as if such invalid, illegal or unenforceable provisions had never been contained herein.

8.4. Waiver. If either party should waive any breach of any provisions of this Agreement, they shall not thereby be deemed to have waived any preceding or succeeding breach of the same or any other provision of this Agreement.

8.5. Complete Agreement. This Agreement, together with the Employee Confidential Information and Inventions Assignment Agreement, constitutes the entire agreement between Executive and the Company and is the complete, final, and exclusive embodiment of their agreement with regard to this subject matter, and will supersede all prior agreements, understandings, discussions, negotiations and undertakings, whether written or oral, between the parties with respect to the subject matter hereof, including, without limitation, any offer letter with the Company and any promise of change in control or severance protection. This Agreement is entered into without reliance on any promise or representation other than those expressly contained herein or therein, and cannot be modified or amended except in a writing signed by Chief Executive Officer of the Company and Executive.

8.6. Counterparts. This Agreement may be executed in separate counterparts, any one of which need not contain signatures of more than one party, but all of which taken together will constitute one and the same Agreement.

8.7. HEADINGS. The headings of the sections hereof are inserted for convenience only and shall not be deemed to constitute a part hereof nor to affect the meaning thereof.

8.8. SUCCESSORS AND ASSIGNS. This Agreement is intended to bind and inure to the benefit of and be enforceable by Executive and the Company, and their respective successors, assigns, heirs, executors and administrators, except that Executive may not assign his rights or delegate his duties or obligations hereunder without the prior written consent of the Company.

8.9. ARBITRATION. Unless otherwise prohibited by law or specified below, all disputes, claims and causes of action, in law or equity, arising from or relating to this Agreement or its enforcement, performance, breach, or interpretation (each, a “**Claim**”) shall be resolved solely and exclusively by final and binding arbitration held in San Mateo County, California through Judicial Arbitration & Mediation Services (“**JAMS**”) in conformity with the then-existing JAMS employment arbitration rules and California law. The arbitrator shall: (a) provide adequate discovery for the resolution of the dispute; and (b) issue a written arbitration decision, to include the arbitrator’s essential findings and conclusions and a statement of the award. However, nothing in this section is intended to prevent either party from obtaining injunctive relief in court to prevent irreparable harm pending the conclusion of any such arbitration. The Company shall bear the costs of any such arbitration. Executive and the Company understand that by agreement to arbitrate any Claim pursuant to this Section 8.9, they will not have the right to have any Claim decided by a jury or a court, but shall instead have any Claim decided through arbitration. Executive and the Company waive any constitutional or other right to bring claims covered by this Agreement other than in their individual capacities. Except as may be prohibited by applicable law, the foregoing waiver includes the ability to assert claims as a plaintiff or class member in any purported class or representative proceeding.

8.10. EXECUTIVE ACKNOWLEDGEMENT. Executive acknowledges that (a) he has consulted with or has had the opportunity to consult with independent counsel of his own choice concerning this Agreement, and has been advised to do so by the Company, and (b) that he has read and understands the Agreement, is fully aware of its legal effect, and has entered into it freely based on his own judgment.

8.11. Choice of Law. All questions concerning the construction, validity and interpretation of this Agreement will be governed by the law of the State of California without regard to the conflicts of law provisions thereof.

[Signature page follows]

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

AIMMUNE THERAPEUTICS, INC.

By: /s/ Stephen G. Dilly
STEPHEN G. DILLY, M.B.B.S., PH.D.
President and Chief Executive Officer

Accepted and Agreed:

/s/ Dan Adelman
DAN ADELMAN

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SEPARATION AGREEMENT

ation Agreement (the "Agreement") by and between Robert M. Elfont, M.D., Ph.D. ("Executive"), and Aimmune Therapeutics, Inc., a Delaware corporation (the "Company"), is made effective as of the eighth (8th) day following the date Executive signs this Agreement if not revoked in accordance with Section 6(c)(iii) (the "Effective Date") with reference to the following facts:

A. Executive's employment with the Company and status as an officer and employee of the Company and each of its affiliates will end effective upon the Termination Date (as defined below).

B. Executive and the Company want to end their relationship amicably and also to establish the obligations of the parties including, without limitation, all amounts due and owing to the Executive.

BEFORE, in consideration of the mutual covenants and agreements hereinafter set forth, the parties agree as follows:

1. Termination Date. Executive acknowledges and agrees that his status as an officer and employee of the Company, and each of its subsidiaries, shall end effective as of May 31, 2016 (the "Termination Date"). Executive hereby agrees to execute such further document(s) as shall be determined by the Company as necessary or desirable to give effect to the termination of Executive's status as an officer of the Company and each of its subsidiaries; *provided* that such documents shall not be inconsistent with any of the terms of this Agreement.

2. Final Paycheck; Payment of Accrued Wages and Expenses.

(a) *Final Paycheck.* As soon as administratively practicable on or after the Termination Date, the Company will pay Executive all accrued but unpaid base salary and all accrued and unused vacation earned through the Termination Date, subject to standard payroll deductions and withholdings. Executive is entitled to these payments regardless of whether Executive executes this Agreement.

(b) *Business Expenses.* The Company shall reimburse Executive for all outstanding expenses incurred prior to the Termination Date which are consistent with the Company's policies in effect from time to time with respect to travel, entertainment and other business expenses, subject to the Company's requirements with respect to reporting and documenting such expenses. Executive is entitled to these reimbursements regardless of whether Executive executes this Agreement.

3. Transition Services. During the period commencing on the Termination Date and ending on the six (6) month anniversary of the Termination Date (the "Transition Period"), Executive shall provide such transition services (the "Transition Services") in his area of expertise as shall be requested by the Company, provided, that in no event shall Executive be required to spend more than eight (8) hours per week performing Transition Services. During the Transition Period, Executive may engage in other full-time or part-time employment or other business endeavors of Executive's choosing, provided that he is able to perform the Transition Services at such times and locations as mutually agreed to by Executive and the Company. For

purposes of clarity, during the Transition Period, Executive will constitute “an agent” as such term is used in the definition of “Covered Event” included in that certain Indemnification Agreement effective as of August 5, 2015 by and between the Company and Executive (the “Indemnification Agreement”).

4. Separation Payments and Benefits. Without admission of any liability, fact or claim, the Company hereby agrees, subject to this Agreement becoming effective and irrevocable, and subject to Executive’s performance of his continuing obligations pursuant to this Agreement and the Employee Confidential Information and Inventions Agreement entered into between Executive and the Company in accordance with Section 13 of this Agreement (the “Confidentiality Agreement”), to provide Executive the benefits set forth below. Specifically, the Company and Executive agree as follows:

(a) *Severance.* Within thirty (30) days after the Effective Date, the Company will pay to Executive severance in a lump sum equivalent to nine (9) months’ of Executive’s base salary, or \$277,537.50, less applicable withholdings and deductions (such aggregate amount, the “Separation Amount”).

(b) *Equity Awards.* As of immediately prior to the Termination Date, Executive held 299,002 shares of Company common stock (the “Restricted Stock”) acquired upon exercise of that certain option to purchase shares of Company common stock granted to Executive by the Company on September 30, 2014, of which 161,959 shares were vested. As of the Termination Date, Executive also held an option to purchase 26,340 shares of Company common stock granted by the Company on May 13, 2015 (the “2015 Option”), of which 6,585 shares were vested, and an option to purchase 80,000 shares of Company common stock granted by the Company on February 26, 2016 (the “2016 Option”, and together with the 2015 Option, the “Options”), of which 4,999 shares were vested. Executive and the Company hereby agree that effective as of the Termination Date, the vesting of 87,584 shares of Restricted Stock shall be accelerated, all of the Options shall be cancelled and the Company shall repurchase 49,459 shares of Restricted Stock which remain unvested after giving effect to such accelerated vesting (the “Unvested Restricted Stock”) for an aggregate repurchase price of \$7,136.94, such payment to be made in a single lump sum within thirty (30) days following the Termination Date (the “Repurchase Date”). Executive expressly acknowledges and agrees that following the Effective Date, Executive shall have no right, title or interest in the Options, and such Options shall be deemed terminated as of the Termination Date and of no further force or effect. Executive further expressly acknowledges and agrees that (i) following the Repurchase Date, Executive shall have no right, title or interest in the Unvested Restricted Stock and (ii) neither the Unvested Restricted Stock nor the Options will continue to vest during the Transition Period.

(c) *Healthcare Continuation Coverage.* If Executive timely elects to receive continued healthcare coverage pursuant to the provisions of the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended (“COBRA”), the Company shall directly pay, or reimburse Executive for, the COBRA premiums for Executive and Executive’s covered dependents through the earlier of (i) the nine (9)-month anniversary of the Termination Date or (ii) the date on which Executive and/or Executive’s covered dependents, if any, become eligible for healthcare coverage under another employer’s plan(s); *provided*, that after the Company ceases to directly pay or reimburse premiums pursuant to the preceding, Executive may, if eligible, elect to continue healthcare coverage at Executive’s expense in accordance with the provisions of COBRA. Executive acknowledges that he shall be solely responsible for all matters relating to Executive’s continuation of

coverage pursuant to COBRA, including, without limitation, Executive's election of such coverage and his timely payment of premiums.

(d) *Taxes.* Executive understands and agrees that all payments under this Agreement will be subject to appropriate tax withholding and other deductions. To the extent any taxes may be payable by Executive for the benefits provided to him by this Agreement beyond those withheld by the Company, Executive agrees to pay them himself and to indemnify and hold the Company and the other entities released herein harmless for any tax claims or penalties, and associated attorneys' fees and costs, resulting from any failure by him to make required payments. To the extent that any reimbursements payable pursuant to this Agreement are subject to the provisions of Section 409A of the Code, such reimbursements shall be paid to Executive no later than December 31 of the year following the year in which the expense was incurred, the amount of expenses reimbursed in one year shall not affect the amount eligible for reimbursement in any subsequent year, and Executive's right to reimbursement under this Agreement will not be subject to liquidation or exchange for another benefit.

(e) *SEC Reporting.* Executive acknowledges that to the extent required by the Securities Exchange Act of 1934, as amended (the "Exchange Act"), he will have continuing obligations under Section 16(a) and 16(b) of the Exchange Act to report any matching transactions in Company common stock for six (6) months following the Termination Date. Executive hereby agrees not to undertake, directly or indirectly, any reportable transactions until the end of such six (6) month period.

(f) *Sole Separation Benefit.* Executive agrees that the payments provided by this Section 4 are not required under the Company's normal policies and procedures and are provided as a severance solely in connection with this Agreement. Executive acknowledges and agrees that the payments referenced in this Section 4 constitute adequate and valuable consideration, in and of themselves, for the promises contained in this Agreement.

5. *Full Payment.* Executive acknowledges that the payment and arrangements herein shall constitute full and complete satisfaction of any and all amounts properly due and owing to Executive as a result of his employment with the Company and the termination thereof. Executive further acknowledges that, other than the Confidentiality Agreement, this Agreement shall supersede each agreement entered into between Executive and the Company regarding Executive's employment, including, without limitation, that certain Executive Employment Agreement between Executive and the Company dated as of July 31, 2015 (the "Employment Agreement") and any other offer letter, employment agreement, bonus plan or arrangement, severance and/or change in control agreement, and each such agreement shall be deemed terminated and of no further effect as of the Termination Date.

6. *Executive's Release of the Company.* Executive understands that by agreeing to the release provided by this Section 6, Executive is agreeing not to sue, or otherwise file any claim against, the Company or any of its directors, officers, employees, investors or other agents for any reason whatsoever based on anything that has occurred as of the date Executive signs this Agreement.

(a) *Released Claims.* On behalf of Executive and Executive's heirs, assigns, executors, administrators, trusts, spouse and estate, Executive hereby releases and forever discharges the "Releasees" hereunder, consisting of the Company, and each of its

owners, affiliates, subsidiaries, predecessors, successors, assigns, agents, directors, officers, partners, employees, and insurers, and all persons acting by, through, under or in concert with them, or any of them, of and from any and all manner of action or actions, cause or causes of action, in law or in equity, suits, debts, liens, contracts, agreements, promises, liability, claims, demands, damages, loss, cost or expense, of any nature whatsoever, known or unknown, fixed or contingent (hereinafter called "Claims"), which Executive now has or may hereafter have against the Releasees, or any of them, by reason of any matter, cause, or thing whatsoever from the beginning of time to the date hereof, including, without limiting the generality of the foregoing, any Claims arising out of, based upon, or relating to Executive's hire, employment, remuneration or resignation by the Releasees, or any of them, Claims arising under federal, state, or local laws relating to employment, Claims of any kind that may be brought in any court or administrative agency, including any Claims arising under Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000, et seq.; Americans with Disabilities Act, as amended, 42 U.S.C. § 12101 et seq.; the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 701 et seq.; Age Discrimination in Employment Act, as amended, 29 U.S.C. § 621, et seq.; Civil Rights Act of 1866, and Civil Rights Act of 1991; 42 U.S.C. § 1981, et seq.; Equal Pay Act, as amended, 29 U.S.C. § 206(d); regulations of the Office of Federal Contract Compliance, 41 C.F.R. Section 60, et seq.; The Family and Medical Leave Act, as amended, 29 U.S.C. § 2601 et seq.; the Fair Labor Standards Act of 1938, as amended, 29 U.S.C. § 201 et seq.; the Employee Retirement Income Security Act, as amended, 29 U.S.C. § 1001 et seq.; the Worker Adjustment and Retraining Notification Act, as amended, 29 U.S.C. § 2101 et seq.; the California Fair Employment and Housing Act, as amended, Cal. Lab. Code § 12940 et seq.; the California Equal Pay Law, as amended, Cal. Lab. Code §§ 1197.5(a), 199.5; the Moore-Brown-Roberti Family Rights Act of 1991, as amended, Cal. Gov't Code §§ 12945.2, 19702.3; California Labor Code §§ 1101, 1102; the California WARN Act, California Labor Code §§ 1400 et. seq; California Labor Code §§ 1102.5(a),(b); claims for wages under the California Labor Code and any other federal, state or local laws of similar effect; the employment and civil rights laws of California; Claims for breach of contract; Claims arising in tort, including, without limitation, Claims of wrongful dismissal or discharge, discrimination, harassment, retaliation, fraud, misrepresentation, defamation, libel, infliction of emotional distress, violation of public policy, and/or breach of the implied covenant of good faith and fair dealing; and Claims for damages or other remedies of any sort, including, without limitation, compensatory damages, punitive damages, injunctive relief and attorney's fees.

(b) *Unreleased Claims.* Notwithstanding the generality of the foregoing, Executive does not release the following claims:

- (i) Claims for unemployment compensation or any state disability insurance benefits pursuant to the terms of applicable state law;
- (ii) Claims for workers' compensation insurance benefits under the terms of any worker's compensation insurance policy or fund of the Company;
- (iii) Claims to continued participation in certain of the Company's group benefit plans pursuant to the terms and conditions of COBRA;
- (iv) Claims to any benefit entitlements vested as the date of Executive's employment termination, pursuant to written terms of any Company employee benefit plan;

(v) Claims for indemnification under any indemnification agreement, the Company's Bylaws, California Labor Code Section 2802 or any other applicable law; and

(vi) Executive's right to bring to the attention of the Equal Employment Opportunity Commission claims of discrimination; *provided, however*, that Executive does release Executive's right to secure any damages for alleged discriminatory treatment.

(c) *Acknowledgement.* In accordance with the Older Workers Benefit Protection Act of 1990, Executive has been advised of the following:

(i) Executive should consult with an attorney before signing this Agreement;

(ii) Executive has been given at least twenty-one (21) days to consider this Agreement;

(iii) Executive has seven (7) days after signing this Agreement to revoke it. If Executive wishes to revoke this Agreement, Executive must deliver notice of Executive's revocation in writing, no later than 5:00 p.m. on the 7th day following Executive's execution of this Agreement to Ken Boehm, 8000 Marina Blvd., #300, Brisbane, California 94005, fax: (650) 616-0075. Executive understands that if he revokes this Agreement, it will be null and void in its entirety, and he will not be entitled to any payments or benefits provided in this Agreement, other than as provided in Section 2.

(d) EXECUTIVE ACKNOWLEDGES THAT EXECUTIVE HAS BEEN ADVISED OF AND IS FAMILIAR WITH THE PROVISIONS OF CALIFORNIA CIVIL CODE SECTION 1542, WHICH PROVIDES AS FOLLOWS:

"A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH, IF KNOWN BY HIM OR HER, MUST HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR."

BEING AWARE OF SAID CODE SECTION, EXECUTIVE HEREBY EXPRESSLY WAIVES ANY RIGHTS EXECUTIVE MAY HAVE THEREUNDER, AS WELL AS UNDER ANY OTHER STATUTES OR COMMON LAW PRINCIPLES OF SIMILAR EFFECT.

7. Non-Disparagement, Transition, Transfer of Company Property and Limitations on Service. Executive further agrees that:

(a) *Non-Disparagement.* Executive agrees that he shall not disparage, criticize or defame the Company, its affiliates and their respective affiliates, directors, officers, agents, partners, stockholders, employees, products, services, technology or business, either publicly or privately. The Company agrees that it shall not, and it shall instruct its officers and members of its Board of Directors to not, disparage, criticize or defame Executive, either publicly or privately. Nothing in this Section 7(a) shall have

application to any evidence or testimony required by any court, arbitrator or government agency.

(b) *Transition.* Each of the Company and Executive shall use their respective reasonable efforts to cooperate with each other in good faith to facilitate a smooth transition of Executive's duties to other executive(s) of the Company.

(c) *Transfer of Company Property.* On or before the Termination Date, Executive shall turn over to the Company all files, memoranda, records, and other documents, and any other physical or personal property which are the property of the Company and which he had in his possession, custody or control at the time he signed this Agreement.

8. Executive Representations. Executive warrants and represents that (a) he has not filed or authorized the filing of any complaints, charges or lawsuits against the Company or any affiliate of the Company with any governmental agency or court, and that if, unbeknownst to Executive, such a complaint, charge or lawsuit has been filed on his behalf, he will immediately cause it to be withdrawn and dismissed, (b) he has reported all hours worked as of the date of this Agreement and has been paid all compensation, wages, bonuses, commissions, and/or benefits to which he may be entitled and no other compensation, wages, bonuses, commissions and/or benefits are due to him, except as provided in this Agreement, (c) he has no known workplace injuries or occupational diseases and has been provided and/or has not been denied any leave requested under the Family and Medical Leave Act or any similar state law, (d) the execution, delivery and performance of this Agreement by Executive does not and will not conflict with, breach, violate or cause a default under any agreement, contract or instrument to which Executive is a party or any judgment, order or decree to which Executive is subject, and (e) upon the execution and delivery of this Agreement by the Company and Executive, this Agreement will be a valid and binding obligation of Executive, enforceable in accordance with its terms.

9. No Assignment by Executive. Executive warrants and represents that no portion of any of the matters released herein, and no portion of any recovery or settlement to which Executive might be entitled, has been assigned or transferred to any other person, firm or corporation not a party to this Agreement, in any manner, including by way of subrogation or operation of law or otherwise. If any claim, action, demand or suit should be made or instituted against the Company or any other Releasee because of any actual assignment, subrogation or transfer by Executive, Executive agrees to indemnify and hold harmless the Company and all other Releasees against such claim, action, suit or demand, including necessary expenses of investigation, attorneys' fees and costs. In the event of Executive's death, this Agreement shall inure to the benefit of Executive and Executive's executors, administrators, heirs, distributees, devisees, and legatees. None of Executive's rights or obligations may be assigned or transferred by Executive, other than Executive's rights to payments hereunder, which may be transferred only upon Executive's death by will or operation of law.

10. Governing Law. This Agreement shall be construed and enforced in accordance with, and the rights of the parties shall be governed by, the laws of the State of California or, where applicable, United States federal law, in each case, without regard to any conflicts of laws provisions or those of any state other than California.

11. Miscellaneous. This Agreement, together with the Confidentiality Agreement and the Indemnification Agreement, comprises the entire agreement between the parties with regard to the subject matter hereof and supersedes, in their entirety, any other agreements

between Executive and the Company with regard to the subject matter hereof. The Company and Executive acknowledge that the termination of the Executive's employment with the Company is intended to constitute an involuntary separation from service for the purposes of Section 409A of the Code, and the related Department of Treasury regulations. Executive acknowledges that there are no other agreements, written, oral or implied, and that he may not rely on any prior negotiations, discussions, representations or agreements. This Agreement may be modified only in writing, and such writing must be signed by both parties and recited that it is intended to modify this Agreement. This Agreement may be executed in separate counterparts, each of which is deemed to be an original and all of which taken together constitute one and the same agreement.

12. Company Assignment and Successors. The Company shall assign its rights and obligations under this Agreement to any successor to all or substantially all of the business or the assets of the Company (by merger or otherwise). This Agreement shall be binding upon and inure to the benefit of the Company and its successors, assigns, personnel and legal representatives.

13. Maintaining Confidential Information. Executive reaffirms his obligations under the Confidentiality Agreement. Executive acknowledges and agrees that the payments and other benefits provided in Section 4 above shall be subject to (a) Executive signing (and returning to Ken Boehm) before the Effective Date the Confidentiality Agreement, the form of which is attached hereto as Exhibit A, and (b) Executive's continued compliance with Executive's obligations under the Confidentiality Agreement. In the course of Executive's performance of the Transition Services, Executive may receive or be exposed to the confidential information of the Company (whether in oral, written, graphic or electronic form), including the Company's technical, research, financial, business, commercial, personnel or operational information, and/or its ideas, trade secrets, know-how, procedures, strategies or plans ("Proprietary Information"). Executive acknowledges the confidential and secret character of the Proprietary Information, and agrees that the Proprietary Information is the sole, exclusive and valuable property of the Company. Accordingly, Executive shall not reproduce or otherwise use any of the Proprietary Information except in the performance of the Transition Services, and shall not disclose any of the Proprietary Information in any form to any third party, except with the Company's express prior written consent. Executive's obligations of confidentiality and non-use under this Agreement shall remain in effect for five (5) years from the Effective Date. "Proprietary Information" shall not be deemed to include information which Executive can demonstrate by competent written evidence: (i) was in the public domain when disclosed by the Company or subsequently becomes public through no act or failure to act on the part of Executive; (ii) was already known by Executive, without confidentiality restrictions, when disclosed by the Company; or (iii) was or is furnished to Executive by a third party not bound by any confidentiality obligation or other restriction on disclosure with respect to such information.

14. Executive's Cooperation. After the Termination Date, Executive shall cooperate with the Company and its affiliates, upon the Company's reasonable request, with respect to any internal investigation or administrative, regulatory or judicial proceeding involving matters within the scope of Executive's duties and responsibilities to the Company or its affiliates during his employment with the Company (including, without limitation, Executive being available to the Company upon reasonable notice for interviews and factual investigations, appearing at the Company's reasonable request to give testimony without requiring service of a subpoena or other legal process, and turning over to the Company all relevant Company documents which are or may have come into Executive's possession during his employment); *provided, however*, that any such request by the Company shall not be unduly burdensome or interfere with Executive's personal schedule or ability to engage in gainful employment.

(Signature page(s) follow)

SS WHEREOF, the undersigned have caused this Separation Agreement to be duly executed and delivered as of the date indicated next to their respective signatures below.

DATED: July 5, 2016

/s/ Robert M. Elfont

Robert M. Elfont, M.D., Ph.D.

AIMMUNE THERAPEUTICS, INC.

DATED: July 12, 2016

By: /s/ Stephen G. Dilly

Name: Stephen G. Dilly

Title: Chief Executive Officer

EXHIBIT A

AIMMUNE THERAPEUTICS, INC.

**EMPLOYEE CONFIDENTIAL INFORMATION AND
INVENTIONS ASSIGNMENT AGREEMENT**

The following confirms an agreement (the "Agreement") between Aimmune Therapeutics, Inc., its subsidiaries, affiliates, successors or assigns (together the "Company") and me (Robert Elfont). As a condition of my employment, and in consideration of my employment with the Company and my receipt of the compensation now and hereafter paid to me by Company, I agree to the following effective as of my first day of employment with the Company:

1. **At-Will Employment.** This Agreement is not an employment contract for any particular term. I have a right to resign and Company has the right to terminate my employment at will, at any time, for any or no reason, with or without cause and without notice. In addition, this Agreement does not purport to set forth all of the terms and conditions of my employment, and, as an employee of Company, I have obligations to Company which are not set forth in this Agreement. However, the terms of this Agreement govern over any inconsistent terms and can only be changed by a subsequent written agreement signed by both parties.

2. **Confidential Information.**

(a)**Company Information.** I agree at all times during the term of my employment and thereafter, to hold in strictest confidence, and not to use, except for the benefit of the Company, or to disclose to any person, firm or corporation (in writing, verbally, or via email or any other medium) without written advance authorization of the Board of Directors of the Company, any Confidential Information of the Company. I will not use any Confidential Information except in the performance of my authorized duties as an employee of Company. I understand that "Confidential Information" includes, without limitation, any tangible or intangible proprietary information, technical data, trade secrets or know-how, including, but not limited to, research ideas, concepts, tangible and biological materials (including, but not limited to, cell lines, plasmids, vectors and DNA) and data; clinical data and results; clinical trial designs; clinical development plans; communications with regulatory authorities; patent filings; product plans, products, and services; customer lists and customers (including, but not limited to, customers of the Company on whom I called or with whom I became acquainted during my term of my employment); business markets, software, development, discoveries, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, business plans, corporate strategy plans, financial data; or other business information made, generated or developed by me in the course of my employment with Company, or disclosed to me by Company either directly or indirectly in any form, including, without limitation, in writing, orally, electronically, or by drawings or observation of materials, parts, equipment, or research experiments. Confidential Information also includes confidential information provided to Company by any third party, which is indicated by such third party to be confidential. I further understand that Confidential Information does not include any of the foregoing items which has become publicly known and made generally available through no wrongful act of mine.

(b)**Third Party Information.** I agree that I will not, during my employment with the Company, improperly use or disclose any proprietary information or trade secrets of any former or concurrent employer or other person or entity, and that I will not bring onto the premises of the Company any unpublished document or proprietary information belonging to any such employer, person or entity unless consented to in writing and in advance by such employer, person or entity.

(c) **Third Party Information Received by the Company.** I recognize that the Company has received and in the future will likely receive from third parties their confidential or proprietary information subject to a duty on the Company's part to maintain the confidentiality of such information and to use it only for certain limited purposes. I agree to hold all such confidential or proprietary information in the strictest confidence and not to disclose it to any person, firm or corporation or to use it except as necessary in carrying out my work for the Company consistent with the Company's agreement with such third party.

3. **Inventions.**

(a)**Inventions Retained and Licensed.** I have attached hereto, as **Exhibit A**, a list describing all inventions, original works of authorship, developments, improvements, and trade secrets (if any) which were made by me prior to my employment with the Company (collectively referred to as "Prior Inventions"), which belong to me, which relate to the Company's proposed business, products or research and development, and which are not assigned to the Company hereunder; if no such list is attached to or contained in **Exhibit A**, I represent that there are no such Prior Inventions. If in the course of my employment with the Company, I incorporate into a Company product, process or machine a Prior Invention owned by me or in which I have an interest, the Company is hereby granted and shall have a nonexclusive, fully sublicensable, royalty-free, irrevocable, perpetual, worldwide license to make, have made, modify, use, have used, sell, have sold and import such Prior Invention as part of or in connection with such product, process or machine.

(b)**Assignment of Inventions.** I agree that I will promptly make full written disclosure to the Company, will hold in trust for the sole right and benefit of the Company. I hereby assign to the Company, or its designee, all my right, title, and interest in and to any and all inventions, original works of authorship, developments, concepts, improvements or trade secrets, whether or not patentable or registrable under copyright or similar laws, which I may solely or jointly conceive or develop or reduce to practice, or cause to be conceived or developed or reduced to practice, during the period of time I am in the employ of the Company (collectively referred to as "Inventions"), excepting only any invention (if any) which qualifies fully under the provisions of California Labor Code Section 2870 as provided in Section 3 (f) below. I further acknowledge that all original works of authorship which are made by me (solely or jointly with others) within the scope of and during the period of my employment with the Company and which are protectible by copyright are "works made for hire", as that term is defined in the United States Copyright Act.

(c)**Inventions Assigned to the United States.** I agree to assign to the United States government all my right, title, and interest in and to any and all Inventions hereunder, whenever such full title is required to be in the United States by a contract between the Company and the United States or any of its agencies.

(d)**Maintenance of Records.** I agree to keep and maintain adequate and current written records of any and all Inventions hereunder, including any made by me solely or jointly with others during the term of my employment with the Company. The records will be in the form of notes, sketches, drawings, and any other format that may be specified by the Company. The records will be available to and remain the sole property of the Company at all times.

(e)**Patent and Copyright Registrations.** I agree to assist the Company, or its designee, at the Company's expense, in every proper way to secure the Company's rights in the Inventions and any copyrights, patents, mask work rights or other intellectual property rights relating thereto in any and all countries, including the disclosure to the Company of all pertinent information and data with respect thereto, the execution of all applications, specifications, oaths, assignments and all other instruments which the Company shall deem necessary in order to apply for and obtain such

rights and in order to assign and convey to the Company, its successors, assigns and nominees the sole and exclusive rights, title and interest in and to such Inventions, and any copyrights, patents, mask work rights or other intellectual property rights relating thereto. I further agree that my obligation to execute or cause to be executed, when it is in my power to do so, any such instrument or papers shall continue after the termination of this Agreement. If the Company is unable because of my mental or physical incapacity or for any other reason to secure my signature to apply for or to pursue any application for any United States or foreign patents or copyright registrations covering Inventions or original works of authorship assigned to the Company as above, then I hereby irrevocably designate and appoint the Company and its duly authorized officers and agents as my agent and attorney in fact, to act for and in my behalf and stead to execute and file any such applications and to do all other lawfully permitted acts to further the prosecution and issuance of letters patent or copyright registrations thereon with the same legal force and effect as if executed by me.

(f)**Exception to Assignments.** I understand that the provisions of this Agreement requiring assignment of Inventions to the Company do not apply to any invention which qualifies fully under the provisions of California Labor Code Section 2870 (attached hereto as **Exhibit B**). I will advise the Company promptly in writing of any invention that I believe meet the criteria in California Labor Code Section 2870 and are not disclosed on **Exhibit A**.

4. **Conflicting Employment.** I agree that, during the term of my employment with the Company, I will not engage in any other employment, occupation, consulting or other business activity directly related to the business in which the Company is now involved or becomes involved during the term of my employment, nor will I engage in any other conduct or activities that conflict with my obligations to the Company or is not in the best interests of the Company.

5. **Returning Company Property.** I agree that, prior to or at the time of leaving the employ of the Company, I will deliver to the Company (and will not keep in my possession, recreate or deliver to anyone else) any and all Confidential Information in my possession, as well as all equipment, devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, biological and other tangible materials (including, but not limited, to cell lines, plasmids, vectors and DNA), other documents or tangible property of the Company (or property of third parties that is lawfully in the possession or control of the Company), or reproductions of any aforementioned items including any and all of the aforementioned items developed by me pursuant to my employment with the Company or otherwise property of the Company, its successors or assigns. In the event of the termination of my employment, I agree to sign and deliver the "Termination Certification" attached hereto as **Exhibit C**.

6. **Notification of New Employer.** In the event that I leave the employ of the Company, I hereby grant consent to notification by the Company to my new employer about my rights and obligations under this Agreement.

7. **Solicitation of Employees and Customers.** I acknowledge and agree that for a period of twelve (12) months or to the maximum extent permitted by law immediately following the termination of my relationship with the Company for any reason, whether voluntarily or involuntarily, I shall not either directly or indirectly without the prior written consent of the Company:

(a) solicit, induce, recruit or encourage any of the Company's employees to leave their employment, either for myself or for any other person or entity; or

(b) use Confidential Information of the Company to solicit the business of any customer of the Company, where I had contact with such customer during the period of my employment with the Company, and which business is competitive with any significant part of the business conducted by the

Company or any subsidiary or affiliate thereof at the time of termination of my employment or as contemplated to be conducted by the Company at such time.

In connection with the foregoing, I acknowledge and agree that the identity, appropriate knowledge of personnel, research and/or product requirements, volume and frequency of orders, and price sensitivity of customers of the Company are not publicly available information and constitute valuable trade secrets of the Company.

8. **Photography Consent, Waiver, and Release.** Upon execution of this Agreement, I agree to sign the Photography Consent, Waiver and Release attached as **Exhibit D** hereto.

9. **Representations.** I agree to execute any proper oath or verify any proper document required to carry out the terms of this Agreement. I represent that my performance of all the terms of this Agreement will not breach any agreement to keep in confidence proprietary information acquired by me in confidence or in trust prior to my employment by the Company. I have not entered into, and I agree I will not enter into, any oral or written agreement in conflict herewith.

10. **Arbitration and Equitable Relief.**

(a)**Arbitration.** Except as provided in Section 10(b) below, I agree that any dispute or controversy arising out of or relating to any interpretation, construction, performance or breach of this Agreement, shall be settled by binding arbitration conducted by a single, neutral arbitrator associated with Judicial Arbitration & Mediation Services (“JAMS”) in San Mateo County, California, in accordance with the then-effective JAMS employment arbitration rules and California law. The arbitrator may grant injunctions or other relief in such dispute or controversy. The decision of the arbitrator shall be final, conclusive and binding on the parties to the arbitration. Judgment may be entered on the arbitrator’s decision in any court having jurisdiction. The Company shall pay the costs and expenses of the arbitration, including all administrative and arbitrator fees, and each of us shall separately pay our counsel fees. However, the arbitrator shall be empowered to make awards of costs or fees as provided by law.

(b)**Equitable Remedies.** I agree that it would be impossible or inadequate to measure and calculate the Company’s damages from any breach of the covenants set forth in this Agreement. Accordingly, I agree that if I breach any provision of this Agreement, the Company will have available, in addition to any other right or remedy available, the right to obtain an injunction from a court of competent jurisdiction restraining such breach or threatened breach and to specific performance of any such provision of this Agreement.

11. **Non-Disparagement.** I agree that, during employment with Company and thereafter, I will not make comments, whether oral or in writing, that tend to disparage or injure the Company, its officers, directors, agents, employees, technology, businesses, products or services. Nothing in this Agreement will be construed to preclude you from complying with the terms of a validly issued subpoena.

12. **General Provisions.**

(a)**Governing Law; Consent to Personal Jurisdiction.** This Agreement will be governed by the laws of the State of California exclusively, as such laws apply to contracts between California residents performed entirely within California. I hereby expressly consent to the personal jurisdiction of the state and federal courts located in San Mateo County, California for any lawsuit filed there against me by the Company arising from or relating to this Agreement.

(b) **Entire Agreement.** This Agreement sets forth the entire agreement and understanding between the Company and me relating to the subject matter herein and merges all prior and contemporaneous discussions between us, including any previous confidentiality agreements that I may have entered into with the Company. No modification of or amendment to this Agreement, nor any waiver of any rights under this Agreement, will be effective unless in writing signed by both parties. Any subsequent change or changes in my duties, salary or compensation will not affect the validity or scope of this Agreement.

(c)**Severability.** If one or more of the provisions in this Agreement are deemed void by law, then the remaining provisions will continue in full force and effect.

(d)**Successors and Assigns.** This Agreement will be binding upon my heirs, executors, administrators and other legal representatives and will be for the benefit of the Company, its successors, and assigns.

(e)**Survival.** The rights and obligations of the parties to this Agreement will survive termination of my employment with Company.

(f) **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which together shall be deemed to be one and the same instrument.

I HAVE READ THIS AGREEMENT CAREFULLY AND I UNDERSTAND AND ACCEPT THE OBLIGATIONS WHICH IT IMPOSES UPON ME WITHOUT RESERVATION. NO PROMISES OR REPRESENTATIONS HAVE BEEN MADE TO ME TO INDUCE ME TO SIGN THIS AGREEMENT. I SIGN THIS AGREEMENT VOLUNTARILY AND FREELY, IN DUPLICATE, WITH THE UNDERSTANDING THAT ONE COUNTERPART WILL BE RETAINED BY COMPANY AND THE OTHER COUNTERPART WILL BE RETAINED BY ME.

Date: 8 July 2016

/s/ Robert Elfont

Signature

Printed

Robert Elfont

AIMMUNE THERAPEUTICS, INC.

By: /s/ Doug Sheehy

Title: General Counsel & Secretary

Date: July 11, 2016

EXHIBIT A

**LIST OF PRIOR INVENTIONS
(INCLUDING ORIGINAL WORKS OF AUTHORSHIP)**

<u>Title</u>	<u>Identifying Number</u> <u>Date</u>	<u>Or Brief Description</u>
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EXHIBIT B

**1. CALIFORNIA LABOR CODE SECTION 2870
EMPLOYMENT AGREEMENTS; ASSIGNMENT OF RIGHTS**

“(a) Any provision in an employment agreement which provides that an employee shall assign, or offer to assign, any of his or her rights in an invention to his or her employer shall not apply to an invention that developed entirely on his or her own time without using the employer’s equipment, supplies, facilities, or trade secret information except for those inventions that either:

(1) Relate at the time of conception or reduction to practice of the invention to the employer’s business, or actual or demonstrably anticipated research or development of the employer.

(2) Result from any work performed by the employee for the employer.

(b) To the extent a provision in the employment agreement purports to require an employee to assign an invention otherwise excluded from being required to be assigned under subdivision (a), the provision is against the public policy of this state and is unenforceable.”

EXHIBIT C

**AIMMUNE THERAPEUTICS, INC.
TERMINATION CERTIFICATION**

This is to certify that I do not have in my possession, nor have I failed to return, any devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property, or reproductions of any aforementioned items belonging to Aimmune Therapeutics, Inc., its subsidiaries, affiliates, successors or assigns, except where authorized in writing.

I further certify that I have complied with all the terms of the Aimmune Therapeutics, Inc. Employee Confidential Information and Inventions Assignment Agreement signed by me, including the reporting of any inventions and original works of authorship (as defined therein), conceived or made by me (solely or jointly with others) covered by that agreement.

I further agree that, in compliance with the Employee Confidential Information and Inventions Assignment Agreement, I will preserve as confidential all trade secrets, confidential knowledge, data or other proprietary information relating to products, processes, know-how, designs, formulas, developmental or experimental work, computer programs, data bases, other original works of authorship, customer lists, business plans, financial information or other subject matter pertaining to any business of Aimmune Therapeutics, Inc. or any of its employees, clients, consultants, or licensees.

I further agree that in compliance with the Employee Confidential Information and Inventions Assignment Agreement, for twelve (12) months from this date: (a) I will not use confidential information to solicit, induce, recruit or encourage any of the Company's employees to leave their employment, either for myself or for any other person or entity; and (b) I will not use confidential information to solicit the business of any customer of the Company, which business is competitive with any significant part of the business conducted by the Company or any subsidiary or affiliate thereof at the time of termination of my employment or as contemplated to be conducted by the Company at such time.

Date: 8 July 2016

/s/ Robert Elfont
(Employee's Signature)
Robert Elfont
(Type/Print Employee's Name)

EXHIBIT D

**AIMMUNE THERAPEUTICS, INC.
PHOTOGRAPHY CONSENT, WAIVER, AND RELEASE**

For good and valuable consideration, I hereby consent and give permission to Aimmune Therapeutics, Inc. ("Aimmune") or its agent, to photograph, image and/or videotape me, my property, and/or myself as included with others (such photographs, images, and/or videotapes, "Photographs"). I understand that any such Photographs, and all rights associated with them, will belong solely and exclusively to Aimmune and Aimmune shall have the irrevocable and absolute right to copyright, duplicate, reproduce, alter, display, distribute, and/or publish them in any manner, for any purpose, and in any form including, but not limited to, print, electronic, video, and/or Internet without notifying me.

I voluntarily waive any and all rights I may now or hereafter have with respect to any such Photographs, including any compensation, ownership, copyright, and privacy rights and any right to inspect or approve such Photographs and/or copy, print or other materials that may be used in connection with them, whether now or in the future, whether that use is known or unknown to me. I hereby waive any right to inspect or approve of any finished Photographs whether printed or electronic, that may be used now or in the future, whether that use is known or unknown to me, and I forever waive any right to royalties or other compensation arising from or related to the use of the Photographs. I hereby release and discharge, and agree to hold harmless, Aimmune, its officers, agents and employees, and all persons acting under its permission or authority, from any claims, losses, damages or liability arising from or related to such Photographs and/or their use under any circumstances.

This consent, waiver, and release will be binding upon the heirs, executors, administrators and other legal representatives of myself, and will be for the benefit of Aimmune, its successors and assigns.

I HAVE READ AND FULLY UNDERSTAND THE CONTENTS OF THIS CONSENT, WAIVER, AND RELEASE FORM, AND I SIGN IT FREELY AND VOLUNTARILY.

/s/ Robert Elfont

Name: Robert Elfont

Date: 8 July 2016

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Stephen G. Dilly, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aimmune 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(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) 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) 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
 - (c) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 10, 2016

By: _____ /s/ Stephen G. Dilly
Stephen G. Dilly, M.B.B.S., PhD.
President and Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Warren L. DeSouza, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Aimmune 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(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) 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) 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
 - (c) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to 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: August 10, 2016

By: _____ /s/ Warren L. DeSouza
Warren L. DeSouza
Chief Financial Officer
(Principal Financial and Accounting Officer)

