

ALNYLAM PHARMACEUTICALS, INC.

Form 4

June 19, 2013

**FORM 4****UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

Check this box  
if no longer  
subject to  
Section 16.  
Form 4 or  
Form 5  
obligations  
may continue.  
See Instruction  
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF  
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

## OMB APPROVAL

OMB  
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response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Mason Michael

2. Issuer Name **and** Ticker or Trading  
Symbol  
ALNYLAM  
PHARMACEUTICALS, INC.  
[ALNY]

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director      \_\_\_\_ 10% Owner  
\_\_\_\_X\_\_\_\_ Officer (give title below)      \_\_\_\_ Other (specify below)

VP, Finance and Treasurer

300 3RD STREET

(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
06/17/2013

4. If Amendment, Date Original  
Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_\_\_\_X\_\_\_\_ Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting  
Person

CAMBRIDGE, MA 02142

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
Common Stock	06/17/2013		M <sup>(1)</sup>	13,000 A	\$ 16.43 20,847	D	
Common Stock	06/17/2013		S <sup>(1)</sup>	13,000 D	\$ 29.9327 7,847	D	
Common Stock	06/17/2013		M <sup>(1)</sup>	4,375 A	\$ 9.14 12,222	D	
Common Stock	06/17/2013		S <sup>(1)</sup>	4,375 D	\$ 29.9327 7,847	D	

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Common Stock	06/17/2013	M <sup>(1)</sup>	6,250	A	\$ 10.98	14,097	D	
Common Stock	06/17/2013	S <sup>(1)</sup>	6,250	D	\$ 29.9327 <sup>(2)</sup>	7,847	D	
Common Stock						1,821	I	By Managed Account <sup>(3)</sup>

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
				Code	V (A) (D)	Date Exercisable Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 9.14	06/17/2013		M <sup>(1)</sup>	4,375	<sup>(4)</sup> 12/08/2020	Common Stock	4,375
Stock Option (Right to Buy)	\$ 10.98	06/17/2013		M <sup>(1)</sup>	6,250	<sup>(4)</sup> 02/28/2021	Common Stock	6,250
Stock Option (Right to Buy)	\$ 16.43	06/17/2013		M <sup>(1)</sup>	13,000	<sup>(4)</sup> 12/10/2019	Common Stock	13,000

## Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Mason Michael  
300 3RD STREET  
CAMBRIDGE, MA 02142

VP, Finance and Treasurer

## Signatures

/s/ Michael P.

Mason

06/19/2013

    Signature of  
Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan.
- (2) Sale prices ranged from \$29.65 to \$30.41.
- (3) The reporting person owns 1,821 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (4) The stock option vests as to 25% of the shares on the first anniversary of the date of the stock option grant and as to an additional 6.25% of the shares each successive three-month period thereafter.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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