

ALNYLAM PHARMACEUTICALS, INC.  
 Form 4  
 September 12, 2013

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

OMB APPROVAL  
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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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 MARAGANORE JOHN

(Last) (First) (Middle)

C/O ALNYLAM  
 PHARMACEUTICALS, INC., 300  
 THIRD STREET

(Street)

CAMBRIDGE, MA 02142

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 09/11/2013

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

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 Chief Executive Officer

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

**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)
			Code	V	Amount	(D)	Price
Common Stock	09/11/2013		M <sup>(1)</sup>		13,684	A	\$ 0.95
Common Stock	09/11/2013		M <sup>(1)</sup>		45,263	A	\$ 0.95
Common Stock	09/11/2013		S <sup>(1)</sup>		54,047	D	\$ 55.4097
Common Stock	09/11/2013		S <sup>(1)</sup>		3,800	D	\$ 19,717

Stock					56,3342			
					<u>(3)</u>			
Common Stock	09/11/2013		S <sup>(1)</sup>	1,100	D	\$ 57.0236	18,617	D
						<u>(4)</u>		
Common Stock							2,605	I
								By Managed Account <u>(5)</u>

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

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(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)	Amount or Number of Shares
				Code	V (A) (D)	Date Exercisable Expiration Date	Title	
Stock Option (Right to Buy)	\$ 0.95	09/11/2013		M <sup>(1)</sup>	13,684	<u>(6)</u> 01/06/2014 <sup>(1)</sup>	Common Stock	13,684
Stock Option (Right to Buy)	\$ 0.95	09/11/2013		M <sup>(1)</sup>	45,263	<u>(7)</u> 01/06/2014 <sup>(1)</sup>	Common Stock	45,263

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MARAGANORE JOHN C/O ALNYLAM PHARMACEUTICALS, INC. 300 THIRD STREET CAMBRIDGE, MA 02142	X		Chief Executive Officer	

## Signatures

/s/ Michael P. Mason, Attorney-in-Fact For: John M.  
Maraganore

09/12/2013

\_\_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 adopted by the reporting person on November 29, 2012. The options exercised and sold by the reporting person were due to expire on January 6, 2014.
- (2) Sale prices ranged from \$54.96 to \$55.94.
- (3) Sale prices ranged from \$55.98 to \$56.91.
- (4) Sale prices ranged from \$56.99 to \$57.12.
- (5) The reporting person owns 2,605 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (6) The stock option vested as to 25% of the shares on the first anniversary of the stock option grant date and as to an additional 6.25% of the shares each successive three month period thereafter.
- (7) The stock option vested upon the closing of the initial public offering of common stock by the issuer.

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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