MARAGANORE JOHN

Form 4

December 21, 2012

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

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burden hours per response...

5 Relationship of Reporting Person(s) to

2,441

Ι

Estimated average

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

2 Jasuar Nama and Tiakar or Trading

1(b).

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person *

MARAGANORE JOHN Syn AL PH [Al (Last) (First) (Middle) 3. E (Mo			2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]					(Check all applicable) _X_ Director 10% Owner X_ Officer (give title Other (specify below) CEO			
				3. Date of Earliest Transaction (Month/Day/Year) 12/19/2012							
			12/19/2								
		(Street)		4. If Ame	endment, D	ate Origina	1		6. Individual or Jo	oint/Group Fili	ng(Check
G114PDVD GE 144 00140				Filed(Month/Day/Year)					Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting		
	CAMBRIDO	GE, MA 02142						Person			
	(City)	(State)	(Zip)	Tabl	le I - Non-l	Derivative	Secur	ities Acq	uired, Disposed of	f, or Beneficial	ly Owned
	1.Title of Security (Instr. 3)	2. Transaction Dat (Month/Day/Year)	Execution any		3. Transactic Code (Instr. 8)	4. Securit or(A) or Di (Instr. 3, 4)	sposed	of (D)	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 Indirect Beneficial Ownership (Instr. 4)
	Common Stock	12/19/2012			M	4,515	A	\$ 0.475	63,018	D	
	Common Stock	12/19/2012			M	14,102	A	\$ 0.475	77,120	D	
	Common								2 441	Ĭ	by Managed

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

Account (1)

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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 or 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 Amou Underlying Secur (Instr. 3 and 4)	
	,			Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Am Nui Sha
Stock Option (right to buy)	\$ 0.475	12/19/2012		M	(-)	14,102	12/09/2003	02/26/2013	Common Stock	14
Stock Option (right to buy)	\$ 0.475	12/19/2012		M		4,515 (2)	09/08/2003	02/26/2013	Common Stock	4
Stock Option (right to buy)	\$ 18.66	12/20/2012		A	150,000		(3)	12/20/2022	Common Stock	15

Reporting Owners

Reporting Owner Name / Address	Relationships						
FB	Director	10% Owner	Officer	Other			
MARAGANORE JOHN 300 THIRD STREET	X		CEO				
CAMBRIDGE, MA 02142							

Signatures

/s/ Michael P. Mason, Attorney-in-Fact

**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 reporting person owns 2,441 shares of ALNY stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.

Reporting Owners 2

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- (2) Shares previously held in Trust for which the reporting person was trustee. Trust has been dissolved.
- (3) The stock option vests as to 25% of the shares on the 1st 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.

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