Greene Barry E Form 4 December 14, 2011

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL OMB** 

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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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

Name and Address of Reporting Person * Greene Barry E			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			
(Last) 300 THIRD	, ,	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 12/12/2011				_X_ Officer (give title Other (specify below)  President and COO				
CAMBRID	(Street) GE, MA 02142			ndment, Da nth/Day/Year	U	1		6. Individual or Japplicable Line) _X_ Form filed by Form filed by Person	•	erson	
(City)	(State)	(Zip)	Tabl	e I - Non-D	erivative)	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Da (Month/Day/Year	Execution any	ned n Date, if Day/Year)	3. Transactic Code (Instr. 8)	(Instr. 3,	ispose	d of (D) 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 Indirect Beneficial Ownership (Instr. 4)	
Common Stock	12/12/2011			P(1)	699	A	\$ 7.146 (2)	2,145	D		
Common Stock								1,849	I	by Managed Account (3)	

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

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#### number.

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration Date		Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr. :	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration		or Name la sur		
						Exercisable	Date				
				C 1 W	(A) (D)				of		
				Code V	(A) (D)			,	Shares		

## **Reporting Owners**

Reporting Owner Name / Address	Relationships
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Director 10% Owner Officer Other

Greene Barry E
300 THIRD STREET
CAMBRIDGE, MA 02142

President and COO

## **Signatures**

/s/ Michael P. Mason, Attorney-in-Fact for Barry E.

Greene

12/14/2011

\*\*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 purchases reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 9, 2011.
- (2) Purchase prices ranged from \$7.00 to \$7.25.
- (3) The reporting person owns 1,849 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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