ALNYLAM PHARMACEUTICALS, INC.

Form 4

December 11, 2008

1. Title of 2.

3. Transaction Date 3A. Deemed

Derivative Conversion (Month/Day/Year) Execution Date, if TransactionDerivative

FORM	ЛД								PPROVAL	
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549							OMB Number:	3235-028		
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. STATEMENT OF CHANGES IN BENEFICIAL SECURITIES SECURITIES Filed pursuant to Section 16(a) of the Securities Excoording the Section 17(a) of the Public Utility Holding Company and the Securities Excoording the Section 17(a) of the Investment Company and the Securities Excoording the Section 17(b) of the Investment Company and the Securities Excoording the Securities Excoording the Section 17(b) of the Investment Company and the Securities Excoording the Section 17(a) of the Investment Company and the Securities Excoording the Section 17(b) of the Investment Company and the Securities Excoording the Section 17(b) of the Securities Excoording the Section 17(c) of the Securities Excoording the Securities Excoordin						TICIAL OV ties Exchan	nge Act of 1934, of 1935 or Section	Expires: January 3 Estimated average burden hours per response 0		
See Inst 1(b).	ruction	20(11)	01 0110 11		. Сотр ш	.j 1100 01 1				
(Print or Type	Responses)									
1. Name and Address of Reporting Person * Greene Barry E			2. Issuer Name and Ticker or Trading Symbol			Trading	5. Relationship of Reporting Person(s) to Issuer			
			ALNYLAM PHARMACEUTICALS, INC. [ALNY]				(Check all applicable) Director 10% Owner			
(Last) (First) (Middle) 300 THIRD STREET			3. Date of Earliest Transaction (Month/Day/Year) 12/09/2008				_X_ Officer (give title Other (specify below) President and COO			
CAMBRII	(Street) DGE, MA 02142			endment, D onth/Day/Yea	_	ıl	6. Individual or J Applicable Line) _X_ Form filed by Form filed by Person		erson	
(City)	(State)	(Zip)	Tab	ole I - Non-l	Derivative	Securities A	acquired, Disposed o	of, or Beneficia	ally Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemo Execution any (Month/Da	Date, if	3. Transaction Code (Instr. 8)	Disposed (Instr. 3,	(A) or of (D)	Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Reminder: Re	eport on a separate line	e for each cl	ass of sec	urities bene	ficially ow	ned directly	or indirectly.			
					inforr requi	nation cont red to respo ays a curre	spond to the collectained in this form ond unless the forn only valid OMB con	are not m	SEC 1474 (9-02)	
	Tab					sposed of, or convertible	Beneficially Owned			

4.

5. Number of 6. Date Exercisable and

Expiration Date

7. Title and Amount of 8 Underlying Securities 1

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired or Dispose (D) (Instr. 3, 4 and 5)	(A) ed of	(Month/Day/Year)		(Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 21.35	12/09/2008		A	90,000		<u>(1)</u>	12/08/2018	Common Stock	90,000

Reporting Owners

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

Greene Barry E
300 THIRD STREET
CAMBRIDGE, MA 02142

President
and COO

Signatures

By: /s/ Patricia L. Allen, Attorney-in-Fact For: Barry E.

Greene

12/11/2008

**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 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.

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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