ALNYLAM PHARMACEUTICALS, INC.

Form 4

December 11, 2008

FORM	Л Д								PPROVAL		
	UNITED	STATES		RITIES A shington,			COMMISSION	OMB Number:	3235-0287		
Check the if no lon		-					Expires:	January 31, 2005			
subject t Section Form 4 c	51A1EN 16.	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES							average urs per		
Form 5 obligations may continue. See Instruction 1(b). 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 [*] 2. Issuer Schmidt John A Jr Symbol				r Name and	l Ticker of	r Trading	5. Relationship of Reporting Person(s) to Issuer				
			ALNYLAM PHARMACEUTICALS, INC. [ALNY]				(Check all applicable)				
(Last) (First) (Middle) 3				f Earliest Ti Day/Year)	ransaction	ı	Director 10% OwnerX Officer (give title Other (specify below) SVP, Chief Scientific Officer				
300 THIRE	O STREET		12/09/2	2008							
(Street) 4. If Amendment, Da Filed(Month/Day/Year						al	Applicable Line) _X_ Form filed by	Joint/Group Filing(Check One Reporting Person			
CAMBRID	GE, MA 02142						Form filed by Person	More than One R	eporting		
(City)	(State)	(Zip)	Tab	le I - Non-I	Derivative	e Securities A	cquired, Disposed	of, or Beneficia	lly Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deeme Execution I any (Month/Day	Date, if	3. Transaction Code (Instr. 8)	4. SecurinAcquired Disposed (Instr. 3,	(A) or l of (D) 4 and 5)	Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code V	Amount	(A) or (D) Price	Transaction(s) (Instr. 3 and 4)				
Reminder: Rep	port on a separate line	e for each cla	ss of secu	urities benef	ficially ow	ned directly o	or indirectly.				
					inforr requi	mation cont red to respo ays a currer	spond to the colle ained in this form and unless the fo ntly valid OMB co	n are not rm	SEC 1474 (9-02)		

 $\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (\emph{e.g.}, puts, calls, warrants, options, convertible securities) \\ \end{tabular}$

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount of	8
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	ionDerivative	Expiration Date	Underlying Securities	D

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code Securities (Instr. 8) Acquired (A) or Disposed of (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	15,000		<u>(1)</u>	12/08/2018	Common Stock	15,000

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Schmidt John A Jr 300 THIRD STREET CAMBRIDGE, MA 02142

SVP, Chief Scientific Officer

Signatures

By: /s/ Patricia L. Allen, Attorney-in-Fact For: John A. Schmidt Jr.

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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