ALNYLAM PHARMACEUTICALS, INC.

Form 5

February 13, 2007

1 cordary 13,	, 2007										
FORM	15								APPROVAL		
	_	RITIES AND EXCHANGE COMMIS					OMB Number:	3235-0362			
Check this no longer	shington, D.C. 20549					Expires:	January 31, 2005				
to Section Form 4 or 5 obligation may conti	ENT OF CHANGES IN BENI RSHIP OF SECURITIES				EFICIAL	Estimated burden ho response	average urs per				
See Instru 1(b). Form 3 H Reported Form 4 Transactic Reported	Filed purs oldings Section 17(a	suant to Section 1 a) of the Public U 30(h) of the Ir	tility Holdin	g Compa	any Ac	et of	1935 or Section	on			
SCHIMMEL PAUL Symbol			Name and Ticker or Trading				5. Relationship of Reporting Person(s) to Issuer				
	PHAR	ALNYLAM PHARMACEUTICALS, INC. [ALNY]				(Check all applicable) X Director 10% Owner					
(Last)	(First) (M	(Month/I	3. Statement for Issuer's Fiscal Year Ended —			Officer (give title Other (specify below)					
C/O ALNY	LAM	12/31/2	.000								
PHARMAC THIRD STI	CEUTICALS, INC REET	C., 300									
			endment, Date Original nth/Day/Year)				6. Individual or Joint/Group Reporting (check applicable line)				
CAMPRID	GE Î MA Î 0014	2									
CAMBRIDGE, MA 02142							_X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person				
(City)	(State)	(Zip) Tab	le I - Non-Der	ivative Sec	curities	Acqu	ired, Disposed	of, or Beneficia	ally 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) (A) or)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common Stock	02/28/2006	Â	G	Amount 1,615	` ,	Price \$ 0	336,473	I	By Paul Schimmel Prototype PSP (1)		
Reminder: Repsecurities bene	Persons who respond to the collection of information contained in this form are not required to respond unless						SEC 2270 (9-02)				

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of

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		4.	5.	6. Date Exerc		7. Title		8. Price of	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration D	ate	Amoun		Derivative	
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ing	Security	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securiti	es	(Instr. 5)	
	Derivative				Securities			(Instr. 3	and 4)		
	Security				Acquired						
	,				(A) or						
					Disposed						
					of (D)						
					(Instr. 3,						
					4, and 5)						
					4, and 3)						
								A	Amount		
						Data	Evaluation	O	r		
						Date Exercisable	Expiration Date	Title N	Number		
								(f		
					(A) (D)			S	hares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

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SCHIMMEL PAUL

C/O ALNYLAM PHARMACEUTICALS, INC.

300 THIRD STREET

CAMBRIDGE. MAÂ 02142

Signatures

/s/ Patricia L. Allen, Attorney-in-Fact 02/13/2007

**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).

ÂΧ

(1) The shares are held by Paul Schimmel as Trustee of the Paul Schimmel Prototype PSP

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.

Reporting Owners 2