Mason Michael Form 5 February 09, 2018	3							OMB AF	PROVAL	
Check this box if no longer subject		UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549						OMB Number: Expires:	3235-0362 January 31, 2005	
to Section 16. Form 4 or Form 5 obligations may continue.	ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES						Estimated average burden hours per response 1.0			
See Instruction 1(b).Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,Form 3 HoldingsSection 17(a) of the Public Utility Holding Company Act of 1935 or SectionReported Form 430(h) of the Investment Company Act of 1940Transactions ReportedReported										
1. Name and Address of Reporting Person <u>*</u> Mason Michael			2. Issuer Name and Ticker or Trading Symbol Issue ALNYLAM PHARMACEUTICALS, INC. [ALNY]				(Check all applicable)			
	(Month/Day/Year) (Month/Day/Year)					XOfficer (give t low)				
300 3RD STREE										
(5	Street)		4. If Amendment, Date Original6. IndividFiled(Month/Day/Year)				Individual or Joi	al or Joint/Group Reporting		
	·	(check applicable line)								
CAMBRIDGE,Â	. MAÂ 0214	-2				_	K_ Form Filed by O _ Form Filed by M rson	1 0		
(City) (S	State)	(Zip)	Table I - Non-Der	ivative Se	curiti	es Acquir	ed, Disposed of,	or Beneficial	ly Owned	
	unsaction Date th/Day/Year)	2A. Deemed Execution Date, any (Month/Day/Ye	Code	4. Securit (A) or Di (Instr. 3, Amount	sposed	d of (D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	Ownership Form:	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common 09/2. Stock	2/2017	Â	I4	1,950	D	\$ 115.47	226	Ι	By Managed Account	

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number. SEC 2270 (9-02)

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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 Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Secur	int of rlying	8. Price of Derivative Security (Instr. 5)	9. of D So E I S Fi (I
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
1 0	Director	10% Owner	Officer	Other			
Mason Michael 300 3RD STREET CAMBRIDGE, MA 02142	Â	Â	VP, Finance and Treasurer	Â			
Signatures							

Signatures

/s/ Michael P. 02/09/2018 Mason **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).
- The reporting person has diversified his retirement plan by selling shares of ALNY common stock in his 401(k) plan received from the (1) ALNY 401(k) matching contribution program.

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.