FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* MARAGANORE JOHN (Last) (First) (Middle) 675 WEST KENDALL STREET				- A	2. Issuer Name and Ticker or Trading Symbol <u>ALNYLAM PHARMACEUTICALS</u> , <u>INC.</u> [ALNY] 3. Date of Earliest Transaction (Month/Day/Year) 11/19/2020								(Ched X	S. Relationship of Reporting Person(s) to Issuer Check all applicable) X Director 10% Owner X Officer (give title below) below) Chief Executive Officer							
(Street) CAMBR (City)	RIDGE MA 02142 (State) (Zip)						Line) X Form filed											int/Group Filing (Check Applicable ed by One Reporting Person ed by More than One Reporting			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
Date				Date	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 an			Beneficia Owned F		s lly ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct I Indirect I tr. 4)	Ownership		
									Code	v	Amount	(A) or (D)	Price		Reported Transacti (Instr. 3 a	on(s)		[Instr. 4)		
Common	Stock			11/19/2	11/19/2020				M ⁽¹⁾		34,765	Α	\$9.1	L4	4 232,3		D				
Common Stock				11/19/2	11/19/2020				S ⁽¹⁾		18,987	D	\$123.5	55 ⁽²⁾	213,	367		D			
Common Stock				11/19/2020				S ⁽¹⁾		5,489	D	\$124.4	49 ⁽³⁾	207,	878		D				
Common Stock				11/19/2020				S ⁽¹⁾		10,187	D	\$125.3	35 ⁽⁴⁾	197,	691	D					
Common Stock 11				11/19/2	2020				S ⁽¹⁾		102	D	\$126	.62	197,589		D				
Common Stock															3,1	33		I 1	Managed Account ⁽⁵⁾		
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)	itle of 2. 3. Transaction 3A. Deemed Execution Date, urity or Exercise (Month/Day/Year) if any				4. Transa	ransaction		5. Number of			cisable and	7. Title a of Secur Underlyi Derivativ (Instr. 3 a	nd Amou ities ng /e Securi	unt 8. Price of Derivative Security		9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Share	er							
Stock Option (right to buy)	\$9.14	11/19/2020			M ⁽¹⁾			34,765	(6	5)	12/08/2020	Common Stock	34,70	65	\$0.0	0		D			

Explanation of Responses:

- 1. All sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 3, 2019. The 34,765 options exercised and sold by the reporting person were due to expire on December 8, 2020.
- 2. Sale prices ranged from \$123.01 to \$124.01.
- 3. Sale prices ranged from \$124.02 to \$125.02.
- 4. Sale prices ranged from \$125.03 to \$125.89.
- 5. Reflects shares of ALNY common stock acquired by the reporting person under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- 6. The stock option vested 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.

By: /s/ Mary Beth DeLena, Attorney-in-Fact For: John M. 11/20/2020

<u>Maraganore</u>

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.