FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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			<u>A</u>	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner							
(Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE				3. Date of Earliest Transaction (Month/Day/Year) 02/20/2020								X Officer (give title Other (specify below) Chief Executive Officer							
(Street)	IDGE M	Ā	02142		4.	If Amer	ndment, [Date	of Origi	nal Fil	ed (Month/Da	y/Year)		i. Indi ine) X		led by On led by Mo	e Repo	(Check A rting Pers One Rep	on
(City)	(S		(Zip)									-							
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/N				ction	on 2A. Deemed Execution Date,		3. 4. Secu		4. Securities	of, or Beneficia ies Acquired (A) or Of (D) (Instr. 3, 4 and 5)			5. Amoun Securities Beneficial Owned Fo	ly (Form: (D) or	Direct Indirect	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		on(s)	(I) (Instr. 4)		(Instr. 4)		
Common	Stock			02/20/	2020				M ⁽¹⁾		34,765	A	\$9.1	4	224,	758		D	
Common	ommon Stock 02/20/20		2020	20			S ⁽¹⁾		2,672	D	\$128.6	2 ⁽²⁾	222,	,086		D			
Common	Common Stock 02/2		02/20/	2020	020			S ⁽¹⁾		1,586	D	\$129.3	3 ⁽³⁾	220,500		D			
Common Stock		02/20/2020				S ⁽¹⁾		5,053	D	\$131.0	7(4)	215,	,447		D				
Common	Stock			02/20/	2020	!0		S ⁽¹⁾		6,887	D	\$131.6	1.61 ⁽⁵⁾ 208		,560		D		
Common	Stock			02/20/	2020				S ⁽¹⁾		18,065	D	\$132.8	1 ⁽⁶⁾	190,495			D	
Common	Stock			02/20/	2020				S ⁽¹⁾		502	D	\$133.4	2 ⁽⁷⁾	189,993			D	
Common	Stock													3,133 I				I	by Managed Account ⁽⁸⁾
		-	Table II								posed of, , convertil				wned				
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execurity or Exercise (Month/Day/Year) if		if any	tion Date, Transi Code n/Day/Year)				6. Date Exercisable and Expiration Date (Month/Day/Year)		ate	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		Derivative Security		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Co		v	(A) (D))	Date Exerci	sable	Expiration Date	Title	Amour or Number of Shares	er					
Stock Option (right to buy)	\$9.14	02/20/2020			M ⁽¹⁾		34	,765	(9)		12/08/2020	Commor Stock	34,76	55	\$0.0	104,295		D	

- 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 \$128.15 to \$129.15.
- 3. Sale prices ranged from \$129.16 to \$129.90.
- 4. Sale prices ranged from \$130.29 to \$131.28. 5. Sale prices ranged from \$131.30 to \$132.24.
- 6. Sale prices ranged from \$132.37 to \$133.24.
- 7. Sale prices ranged from \$133.40 to \$133.43.
- 8. 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.
- 9. 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.

By: Mary Beth DeLena, Attorney-in-Fact For: John M.

02/21/2020

Date

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** Signature of Reporting Person

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.

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