SEC For	m 4 FORM	4	UNITED) STA	TES	S SE	CUF	ודוא	ES ANI	ΣE	ХСНА	NGE C	OMMI	SSION					
					Washington, D.C. 20549											OMB APPROVAL			
Section 16. Form 4 or Form 5 obligations may continue. See					NT OF CHANGES IN BENEFICIAL OWNE d pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940									Estima			3 Number: 3235-0287 nated average burden s per response: 0.5		
1. Name and Address of Reporting Person* PYOTT DAVID E I					2. Issuer Name and Ticker or Trading Symbol <u>ALNYLAM PHARMACEUTICALS, INC.</u> [ALNY]												10% Ow	s) to Issuer 10% Owner Other (specify	
(Last) (First) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE			(Middle)			Date of /15/20		t Trar	nsaction (Mc	nth/[Day/Year)		below) below)						
(Street) CAMBRIDGE MA			02142		4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person 					
(City)	(Si	ate)	(Zip)																
		Tab	ole I - Non	-Deriv	ativ	e Sec	curitie	s A	cquired,	Dis	posed o	f, or Be	neficial	ly Owned					
Date				2. Trans Date (Month/		ear) E	2A. Deemed Execution Date f any Month/Day/Yea		Code (Instr					Beneficia Owned F	s Forr ally (D) o ollowing (I) (II	Form (D) or	n: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code V Amount		(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)			
		-	Table II - I (quired, D s, option					Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemec Execution D if any (Month/Day	Date,	Code (Ins		5. Number ion of		6. Date Exercisable Expiration Date (Month/Day/Year)			and 7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to buy)	\$171.95	07/15/2021			A		4,032		07/15/2022	(1)	07/14/2031	Common Stock	4,032	\$0.0	4,032	2	D		

Explanation of Responses:

1. This award vests in full upon the earlier of the first anniversary of the grant date and the date of any earlier retirement or resignation of the Reporting Person, provided such date of retirement or resignation occurs no more than 90 days prior to the first anniversary of the grant date.

By: /s/ Mary Beth DeLena,	
Attorney-in-Fact For: David	<u>07/19/2021</u>
E.I. Pyott	

** 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.