SEC For	m 4 FORM	4	UNITED) STA	TES	S SE			ES AND		NGE C	ЮММІ	SSION				
					Washington, D.C. 20549									OMB APPROVAL			
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).					ed pur	suant t	o Sectio	on 16	(a) of the Secu e Investment C	irities Exchar	ige Act of 1		SHIP	Estim		er: 3 verage burden sponse:	0.5
1. Name and Address of Reporting Person [*] Ausiello Dennis A					A	2. Issuer Name and Ticker or Trading Symbol <u>ALNYLAM PHARMACEUTICALS, INC.</u> [ALNY]								able) r	10% Owner		
(Last) (First) (Midd 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE						3. Date of Earliest Transaction (Month/Day/Year) 07/15/2021								(give the		below)	Jechy
(Street) CAMBRIDGE MA			02142		_ 4. i	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)													F el soli				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				2. Trans Date (Month/		ear) E	2A. Deemed Execution Date f any (Month/Day/Ye		Code (Ins	on Disposed			Beneficia	s For ally (D) following (I) (I	Form (D) or	m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code V	Amount	(A) or (D)	Price	Transaction				insu. 4)
		-							quired, Dis s, options				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (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 Ily I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	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			Α		4,032		07/15/2022 ⁽¹⁾	07/14/2031	Common Stock	4,032	\$0.0	4,032		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.

<u>By: /s/ Mary Beth DeLena,</u>	
Attorney-in-Fact For: Dennis	<u>07/19/2021</u>
<u>A. Ausiello</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.