FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Name and Address of Reporting Person*     Poma Eric E					2. Issuer Name and Ticker or Trading Symbol  Molecular Templates, Inc. [ MTEM ]									tionship of R all applicabl Director	Reporting Personle)		s) to Issuer 10% Ow	ner
(Last)	(First)	) (I	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 02/15/2023								X	Officer (gi below)	ve title		Other (s below)	pecify
C/O MOLECULAR TEMPLATES, INC.														See remarks				
9301 AMBERGLEN BLVD., SUITE 100					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv	6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) AUSTIN TX 78729												X	X Form filed by One Reporting Person Form filed by More than One Reporting Person				g Person	
(City)	(State	e) (2	Zip)															
		Т	able I - Nor	-Deriv	ative S	Securitie	s Acc	quired, [	Disp	osed o	f, or B	enefic	ially Ow	ned				
Date				2. Transa Date (Month/D		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Dispos		4. Secur Dispose				5. Amount Securities Beneficially Following F	Owned Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
							Code	v	Amount (A) or (D)		Price	Transaction (Instr. 3 and				(Instr. 4)		
	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/Yea	Code	saction (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amoun Securities Underlyi Derivative Security 3 and 4)		erlying	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transaction	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercisab		cpiration ate	Title		Amount or Number of Shares		(Instr. 4)	on(3)		
Stock Option (right to buy)	\$0.4812	02/15/2023		A		400,000		(1)	02	2/14/2033		Common Stock 400,000		\$0.00	400,000		D	

## **Explanation of Responses:**

1. 25% of the shares subject to the option shall vest on February 15, 2024, and thereafter, the remaining 75% of the shares subject to the option shall vest pro rata on a monthly basis over the following 36 months.

## Remarks:

Chief Executive Officer and Chief Scientific Officer

/s/ Eric E. Poma 02/17/2023

\*\* Signature of Reporting Person

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

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).