FORM	4
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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).

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 Kim Jason S.	2. Issuer Name and Ticker or Trading Symbol Molecular Templates, Inc. [MTEM]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last) (First) C/O MOLECULAR TEMPL AMBERGLEN BLVD., SUI	ATES, INC., 9301	3. Date of Earliest Transaction (Month/Day/Year) 05/31/2018					X_Officer (give title below) Other (specify below) See Remarks			
(Street) AUSTIN, TX 78729	4. If Amendment, Date 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) (State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	2. Transaction Date2A. Deemed Execution Date, if (Month/Day/Year)3. Transaction Code (Instr. 8)4. Securities Acqu (A) or Disposed o (Instr. 3, 4 and 5)			Owned Following Reported Transaction(s)		7. Nature of Indirect Beneficial Ownership				
			Code	v	Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)	(Instr. 4)

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

Persons who respond to the collection of information contained SEC 1474 (9-02) in this form are not required to respond unless the form displays a currently valid OMB control number.

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
	Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	ion	5. Number of Derivative Securities 6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect (I)	Beneficial		
				Code	v	(A)	(D)	Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Stock Option (right to buy)	\$ 6.31	05/31/2018		А		100,000		(1)	05/31/2028	Common Stock	100,000	\$ 0	100,000	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
Kim Jason S. C/O MOLECULAR TEMPLATES, INC. 9301 AMBERGLEN BLVD., SUITE 100 AUSTIN, TX 78729			See Remarks				

Signatures

/s/ Jason S. Kim	06/04/2018	
**Signature of Reporting Person	Date	

Explanation of Responses:

* 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).

(1) 25% of the total number of shares subject to the option shall vest on May 31, 2019, and thereafter, the remaining 75% of the shares subject to the option shall vest pro rata on a monthly basis over 36 months.

Remarks:

President and Chief Operating Officer

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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