# FORM 4

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

OMB APP	ROVAL
OMB Number:	3235-0287
Estimated average	burden
houre par raenones	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 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

(Print or Ty	pe Responses	s)													
Name and Address of Reporting Person *  Lanfear Jonathan				2. Issuer Name and Ticker or Trading Symbol Molecular Templates, Inc. [MTEM]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
	ĹECULAF	(First) R TEMPLATES, VD., SUITE 100	, INC., 9301	3. Date of Earliest Transaction (Month/Day/Year) 06/03/2022						Officer (giv	e title below)	Other	(specify below)		
AUSTIN	T, TX 7872	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)					_X_	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	у)	(State)	(Zip)			Ta	ble I	- Non-Der	vative Securition	es Acquired	, Disposed	of, or Bene	ficially Owned		
1.Title of S (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year)		on E	Date, if C		8) (	A. Securities Acq A) or Disposed of Instr. 3, 4 and 5  (A) or Amount (D)	of (D) Ow Trai		Securities Being Reporte	d OFO	wnership orm: Be irect (D) Ov Indirect (Ir	Nature Indirect eneficial wnership astr. 4)
Reminder:	Report on a s	separate line for each		Derivati	ive S	Securities	Acq	Persor in this display uired, Disp	s who respon form are not r rs a currently osed of, or Beno provertible secur	required to valid OMB eficially Ow	respond control r	unless the		d SEC 147	74 (9-02)
1. Title of Derivative Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	Code		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s)	Form of Derivative Security: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisabl	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Stock Option (right to	\$ 0.9728	06/03/2022		A		15,000		<u>(1)</u>	06/02/2032	Common	1 15,000	\$ 0	15,000	D	

#### **Reporting Owners**

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
Lanfear Jonathan C/O MOLECULAR TEMPLATES, INC. 9301 AMBERGLEN BLVD., SUITE 100 AUSTIN, TX 78729	X						

### **Signatures**

/s/ Jonathan Lanfear	06/06/2022					
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) 100% of the total number of shares subject to the option shall vest on June 3, 2023.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.