

## FORM 4

UNITED STATES SECURITIES AND EXCHANGE  
COMMISSION

Washington, D.C. 20549

## OMB APPROVAL

OMB Number: 3235-0287  
 Estimated average  
 burden 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  
OWNERSHIPFiled 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 Person*	2. Issuer Name and Ticker or Trading Symbol <b>PLURISTEM THERAPEUTICS INC [ PSTI ]</b>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <b>Co-CEO &amp; President</b>
(Last) (First) (Middle)  <b>MATAM PARK, BUILDING #5</b>	3. Date of Earliest Transaction (Month/Day/Year)  <b>12/19/2018</b>	6. Individual or Joint/Group Filing (Check Applicable Line)  <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
(Street)  <b>HAIFA L3 3508409</b>	4. If Amendment, Date of Original Filed (Month/Day/Year)	
(City) (State) (Zip)		

Table I – Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	12/19/2018 <sup>(1)</sup>		A		280,000	A	\$0	3,931,616	D	
Common Stock	12/19/2018 <sup>(2)</sup>		A		250,000	A	\$0	4,181,616	D	
Common Stock								66,499	I	By Yaakov Yanay Management Ltd.

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/Year)	4. Transaction Code (Instr. 8)	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 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)	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

## Explanation of Responses:

1. The shares vest as follows: 25% shall vest on the 6 month anniversary of the date of grant and the remaining shares vest in 6 equal installments every 3 months thereafter.
2. The shares vest as follows: 12.5% on the 27 month anniversary of the date of grant and the remaining shares vest in 7 equal installments every 3 months thereafter.

## Remarks:

/s/ Yaky Yanay

\*\* Signature of Reporting Person

12/20/2018

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.