

# SECURITIES AND EXCHANGE COMMISSION

## FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2009-01-26** | Period of Report: **2009-01-21**  
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### ISSUER

#### **PLURISTEM THERAPEUTICS INC**

CIK: **1158780** | IRS No.: **980351734** | State of Incorporation: **NV** | Fiscal Year End: **0630**  
SIC: **2836** Biological products, (no diagnostic substances)

Mailing Address  
*MATAM ADVANCED  
TECHNOLOGY PARK  
BUILDING NO. 20  
HAIFA L3 31905*

Business Address  
*MATAM ADVANCED  
TECHNOLOGY PARK  
BUILDING NO. 20  
HAIFA L3 31905  
972-4-850-1080*

### REPORTING OWNER

#### **YANAY YAKY**

CIK: **1402539**  
Type: **4** | Act: **34** | File No.: **001-31392** | Film No.: **09546434**

Mailing Address  
*ARGAMAN 14  
SHIMSHIT L3 17906*

Business Address  
*011-972-4-850-1080*

# FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### OMB APPROVAL

OMB Number: 3235-0287  
Expires: 02/28/2011  
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 OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person <b>YANAY YAKY</b>			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 type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <b>Chief Financial Officer</b>	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <b>01/21/2009</b>		6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person	
ARGAMAN 14			4. If Amendment, Date Original Filed(Month/Day/Year)			
(Street) <b>SHIMSHIT, L3 17906</b>						
(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)			

**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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					
Stock Option (right to buy)	\$0.62	01/21/2009 <sup>(1)</sup>		A		55,000		04/30/2009 <sup>(2)</sup>	10/30/2018	Common Stock	\$ 0	55,000	D	

**Explanation of Responses:**

- The 2008 annual grant of options is made in accordance with the resolution of the board of directors of the Company on October 30, 2008, which was conditioned upon the approval of an increase of the pool of shares under the 2005 Stock Option Plan by the Company's shareholders. Such increase was approved on January 21, 2009 at the annual meeting of the Company.
- The options vest as follows: 25% on 4/30/2009 and the remaining options vest monthly, in equal installments over 18 months until 10/30/2010.

**Signatures**

/s/ Yaky Yanay

\*\* Signature of Reporting Person

02/26/2009

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.

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