FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL									
OMB Number:	3235-0287								
Expires:	December 31, 2014								
Estimated average burden hours per response	0.5								

1. Name and Address of Reporting Person* YANAY YAKY 0001402539			2. Issuer Name and Ticker or Trading Symbol PLURISTEM THERAPEUTICS INC [PSTI]	5. Relation	to Issuer		
(Last) 14 ARGAMAN S			3. Date of Earliest Transaction (Month/Day/Year) 09/16/2014	X	Officer (give title below) COO & Presi	Other (specify below)	
(Street) SHIMSHIT	L3	17906	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individ	ndividual 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 Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		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)	, , , , ,	Indirect Beneficial Ownership		
			Code	V	Amount	(A) or (D)	Price	and 4)		(Instr. 4)		
Common Stock	09/16/2014		P		10,000	A	\$2.85 ⁽¹⁾	1,079,616	D			

Table II – Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)															
Title of Derivative Security (Instr. 3)		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (I	ansaction bde (Instr. Securities Acquired (A Disposed o (Instr. 3, 4 and 5)		ive ies ed (A) or ed of (D)	re Expiration Date ss (Month/Day/Year) d of (D)		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	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	Amount or Number of Shares		Transaction(s) (Instr. 4)		

Explanation of Responses:

1. The purchase was effected on the Tel Aviv Stock Exchange in New Israeli Shekels (NIS) for per share purchase price of NIS 10.33, which per share purchase price has been reported on this Form 4 in U.S. dollars based on an exchange rate of NIS 3.626 per U.S. dollar.

Remarks:

/s/ Yaky Yanay

** Signature of Reporting Person

09/16/2014

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.