

FORM 4

UNITED STATES SECURITIES AND EXCHANGE
COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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).

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

1. Name and Address of Reporting Person* <u>Gur-Lavie Boaz 0001596407</u> <hr/> (Last) (First) (Middle) <u>24 HA EREZ ST.</u> <hr/> (Street) <u>MAKABIM L3 7179900</u> <hr/> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>PLURISTEM THERAPEUTICS</u> <u>INC [PSTI]</u> <hr/> 3. Date of Earliest Transaction (Month/Day/Year) <u>02/04/2014</u> <hr/> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) Other (specify below) <u>CFO</u> <hr/> 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person
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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	02/04/2014 ⁽¹⁾		A		27,500	A	\$0	54,500	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: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date					
						(A) (D)			Amount or Number of Shares				

Explanation of Responses:

1. The shares vest as follows: 5,000 shares - 25% after 6 months from grant and the remaining shares vest in 6 equal installments every 3 months thereafter. 22,500 shares will be vested upon goals achievement.

Remarks:

/s/ Boaz Gur-Lavie

** Signature of Reporting Person

02/06/2014

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.