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

	I. Name and Address of Reporting Person* BEN-YORAM ISRAEL 0001320556		2. Issuer Name and Ticker or Trading Symbol PLURISTEM THERAPEUTICS INC [PSTI]	Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last)	(First)	(Middle)		Officer (give title Other (specify below) below)					
24 BARKAI	N STREET	3. Date of Earliest Transaction (Month/Day/)		- below) below)					
(Street) RISHON LEZION	L3	75436	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(State)	(Zip)		Person					

Table I – Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1. Title of Security (Instr. 3)	Date Execution Date, if Trans		Transaction Code (Instr. 3, 4 and 5)				5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)			
Common Stock	01/10/2014 ⁽¹⁾		S		2,080	D	\$4.25	374,804	D		
Common Stock	01/13/2014 ⁽¹⁾		S		24,373	D	\$4.296	350,431	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)	erivative Conversion Date curity or Exercise (Month/Day/Year)				sansaction of Derivat Securit Acquire (A) or Disposo of (D) (Instr. 3 4 and 5)		vative urities uired or oosed o) rr. 3,			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	Amount or Number of Shares				

Explanation of Responses:

1. The sales reported on this Form 4 were affected pursuant to automatic selling under Rule 10b5-1 trading plan adopted by the reporting person. **Remarks:**

/s/ Israel Ben-Yoram

01/14/2014

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).