

UNITED STATES SECURITIES AND EXCHANGE
COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL
OWNERSHIP OF SECURITIESFiled 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: 3235-0104
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<p>1. Name and Address of Reporting Person*</p> <p>Gur-Lavie Boaz 0001596407</p> <hr/> <p>(Last) (First) (Middle)</p> <p>24 HA EREZ ST.</p> <hr/> <p>(Street)</p> <p>MAKABIM L3 7179900</p> <hr/> <p>(City) (State) (Zip)</p>	<p>2. Date of Event Requiring Statement (Month/Day/Year)</p> <p>02/04/2014</p>	<p>3. Issuer Name and Ticker or Trading Symbol</p> <p>PLURISTEM THERAPEUTICS INC [PSTI]</p> <hr/> <p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <table border="0"> <tr> <td>Director</td> <td>10% Owner</td> </tr> <tr> <td><input checked="" type="checkbox"/> Officer</td> <td>Other</td> </tr> <tr> <td>(give title below)</td> <td>(specify below)</td> </tr> <tr> <td>CFO</td> <td></td> </tr> </table>	Director	10% Owner	<input checked="" type="checkbox"/> Officer	Other	(give title below)	(specify below)	CFO		<p>5. If Amendment, Date of Original Filed (Month/Day/Year)</p> <hr/> <p>6. Individual or Joint/Group Filing (Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person</p> <p><input type="checkbox"/> Form filed by More than One Reporting Person</p>
Director	10% Owner										
<input checked="" type="checkbox"/> Officer	Other										
(give title below)	(specify below)										
CFO											

Table I – Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	1,500	D	
Common Stock	25,500 ⁽¹⁾	D	

Table II – Derivative Securities Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

1. 25,500 of these shares are subject to vesting. 1,750 of the shares vested on January 15, 2014. 13,250 of the shares will vest depending on the satisfaction of certain performance criteria. Of the remaining 10,500 shares, 3,000 will vest on May 4, 2014, and 7,500 shares will vest in two equal installments every three months thereafter.

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.