

FORM 3 **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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* Franco-Yehuda Chen 0001770681	2. Date of Event Requiring Statement (Month/Day/Year) 03/17/2019	3. Issuer Name and Ticker or Trading Symbol PLURISTEM THERAPEUTICS INC [PSTI]
(Last) (First) (Middle) MATAM ADVANCED TECHNOLOGY PARK BUILDING NO. 5		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer Other (give title below) (specify below) Chief Financial Officer
(Street) HAIFA L3 31905		5. If Amendment, Date of Original Filed (Month/Day/Year)
(City) (State) (Zip) 		6. Individual or Joint/Group Filing (Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person

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⁾	77,158⁽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. Includes 43,000 shares issuable upon vesting of Restricted Stock Units on various dates ranging from June 30, 2019 to December 31, 2022.

Remarks:/s/ Chen Franco-Yehuda

** Signature of Reporting Person

03/18/2019

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 5(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.