## PLURISTEM LIFE SYSTEMS INC Form SC 13G December 17, 2007

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

SCHEDULE 13G

(AMENDMENT NO. \_\_\_)
(RULE 13D-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

UNDER THE SECURITIES EXCHANGE ACT OF 1934

PLURISTEM THERAPEUTICS INC.				
(Name of Issuer)				
COMMON STOCK, PAR VALUE \$0.00001 PER SHARE				
(Title of Class of Securities)				
72940P106				
(CUSIP Number)				
MAY 17, 2007				
(Date of Event Which Requires Filing of this Statement)				
Check the following box to designate the rule pursuant to which the Schedule is filed:				
[_] Rule 13d-1(b)				
[X] Rule 13d-1(c)				
[_] Rule 13d-1(d)				
* The remainder of this cover page shall be filled out for a reporting				

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which

would alter disclosures provided in a prior cover page.

Page 1 of 11 pages

CUSTP	NO.	72940P106	

1.	Name of Reporting Persons/				
	MEITAV GEMEL L	ΓD.			
2.	Check the Appropriate Box if a Member of a Group  (a) [_]  (b) [X]				
3.	SEC Use only				
4.	Place of Organization Israel				
Namb	von of	5.	Sole Voting Power 0		
Number of Shares Beneficially Owned by		6.	Shared Voting Power 70,206,498*		
Each	Reporting son With:	7.	Sole Dispositive Power 0		
		8.	Shared Dispositive Power 70,206,498*		
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 70,206,498*				
10.	. Check if the Aggregate Amount in Row (9) Excludes Certain Shares				
11.	Percent of Class Represented by Amount in Row (9) 5.14%**				
12.	Type of Reporting Person :				
to pwarr bene excl thes an a shar	crovisions in the cants if such exections if such exections if such exections are such as a such	e war: ercise in e: kercis incli 532,00 ock o:	cisable into 21,890,498 shares of Common Stock but, due rants that impose restrictions on the exercise of such e would result in the holder and its affiliates excess of 9.99% of the outstanding shares of the issuer, sable into 26,425,502 shares of Common Stock. If all uded, Meitav Gemel could be deemed beneficially to own 00 shares, or approximately 6.82% of the outstanding f the Issuer. See Item 4.		

Page 2 of 11 pages

CUSIP NO. 72940P106

-----

1.	Name of Reporting Persons/				
	MEITAV UNDERWRITING LTD.				
2.	Check the Appropriate Box if a Member of a Group  (a) [_]  (b) [X]				
3.	SEC Use only				
4.	Place of Organization Israel				
Nl		5.	Sole Voting Power		
	res ficially	6.	Shared Voting Power 29,061,386*		
Each	ed by Reporting son With:	7.	Sole Dispositive Power 0		
		8.	Shared Dispositive Power 29,061,386*		
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 29,061,386*				
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares [X]				
11.	Percent of Class Represented by Amount in Row (9) 2.13%**				
12.	. Type of Reporting Person : CO				
to p warr bene excl thes	crovisions in the cants if such exerticially owning udes warrants ese warrants were own an aggregate	e war: ercise in exercise included of 4	cisable into 9,061,386 shares of Common Stock but, due rants that impose restrictions on the exercise of such e would result in the holder and its affiliates excess of 9.99% of the outstanding shares of the issuer, sable into 10,938,614 shares of Common Stock. If all uded, Meitav Underwriting could be deemed beneficially 0,000,000 shares, or approximately 2.82% of the mmon Stock of the Issuer. See Item 4.		

\*\* Based on 1,323,480,165 shares of Common Stock outstanding as of November 15, 2007. See Item 4.

Page 3 of 11 pages

CUSIP NO. 72940P106

\_\_\_\_\_\_

1. Name of Reporting Persons/

MEITAV INVESTMENT MANAGEMENT LTD.

2.	Check the Appropriate Box if a Member of a Group  (a) [_]  (b) [X]			
3.	SEC Use only			
4.	Place of Organization Israel			
		5.	Sole Voting Power	
Shar	ficially	6.	Shared Voting Power 37,198,575*	
Each	Reporting on With:	7.	Sole Dispositive Power 0	
		8.	Shared Dispositive Power 37,198,575*	
9.	Aggregate Amoun 37,198,575*	t Ber	neficially Owned by Each Reporting Person	
10.	Check if the Ag	grega	te Amount in Row (9) Excludes Certain Shares	
11.	Percent of Clas	s Rep	presented by Amount in Row (9)	
12.	Type of Reporti	ng Pe	erson :	
to p warr bene excl thes bene the	rovisions in the ants if such exe ficially owning udes warrants exe warrants were ficially to own outstanding shar	warr rcise in ex ercis inclu an ac es of	risable into 11,598,575 shares of Common Stock but, due that impose restrictions on the exercise of such would result in the holder and its affiliates access of 9.99% of the outstanding shares of the issuer, sable into 14,001,425 shares of Common Stock. If all aded, Meitav Investment Management could be deemed aggregate of 51,200,000 shares, or approximately 3.61% of a Common Stock of the Issuer. See Item 4.	
			Page 4 of 11 pages	
CUSI	P NO. 72940P106			
1.	Name of Reporti	ng Pe	ersons/	
	MEITAV INVESTME	NT HO	DUSE LTD.	
2.	Check the Appro	priat	e Box if a Member of a Group	

	(b) [X]	J	
3.	SEC Use only		
4.	Place of Organ Israel	izatio	on
		5.	Sole Voting Power
Shar	eficially	6.	Shared Voting Power 136,466,459*
Each	ed by n Reporting son With:	7.	Sole Dispositive Power 0
		8.	Shared Dispositive Power 136,466,459*
9.	Aggregate Amou 136,466,459*	nt Bei	neficially Owned by Each Reporting Person
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares		
11.	Percent of Cla 9.99%**	ss Rep	presented by Amount in Row (9)
12.	Type of Report	ing Pe	erson :
to property warm beneated these beneated the state of the	provisions in the cants if such exerticially owning ludes warrants ese warrants were efficially to own the outstanding	e warnercise in exercise incluan acceptances	cisable into 42,550,459 shares of Common Stock but, due rants that impose restrictions on the exercise of such e would result in the holder and its affiliates access of 9.99% of the outstanding shares of the issuer, sable into 51,365,541 shares of Common Stock. If all aded, Meitav Investment House could be deemed aggregate of 187,832,000 shares, or approximately 13.25% as of Common Stock of the Issuer. See Item 4.
			Page 5 of 11 pages
CUSI	IP NO. 72940P106		
1.	Name of Report	ing Pe	ersons/
	ZVI STEPAK		
2.	Check the Appr (a) [_] (b) [X]	opriat	ce Box if a Member of a Group
3.	SEC Use only		

5

4.	Place of Orgar Israel	nizati	on
		5.	Sole Voting Power
Number of Shares Beneficially		6.	Shared Voting Power 136,466,459*
Each	ed by n Reporting son With:	7.	Sole Dispositive Power 0
		8.	Shared Dispositive Power 136,466,459*
9.	Aggregate Amou 136,466,459*	int Bei	neficially Owned by Each Reporting Person
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares [X]		
11.	Percent of Class Represented by Amount in Row (9) 9.99%**		
12.	Type of Report IN	ing P	erson :
excl thes aggr shar ** E	udes warrants ese warrants were regate of 187,83 res of Common St	exercia e inclus 32,000 cock o	xcess of 9.99% of the outstanding shares of the issuer, sable into 51,365,541 shares of Common Stock. If all uded, Zvi Stepak could be deemed beneficially to own an shares, or approximately 13.25% of the outstanding f the Issuer. See Item 4.  5 shares of Common Stock outstanding as of November 15,
			Page 6 of 11 pages
CUSI	P NO. 72940P106	5)	
1.	Name of Report	ing P	ersons/
	SHLOMO SIMANOV	SKY	
2.	Check the Appr (a) [_] (b) [X]	ropria	te Box if a Member of a Group
3.	SEC Use only		
4.	Place of Orgar	izati	on

6

	Israel			
		5.	Sole Voting Power 0	
Number of Shares Beneficially		6.	Shared Voting Power 136,466,459*	
	ed by n Reporting son With:	7.	Sole Dispositive Power	
		8.	Shared Dispositive Power 136,466,459*	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 136,466,459*			
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares [X]			
11.	Percent of Class Represented by Amount in Row (9) 9.99%**			
12.	Type of Reporting Person : IN			

- \* Includes warrants exercisable into 42,550,459 shares of Common Stock but, due to provisions in the warrants that impose restrictions on the exercise of such warrants if such exercise would result in the holder and its affiliates beneficially owning in excess of 9.99% of the outstanding shares of the issuer, excludes warrants exercisable into 51,365,541 shares of Common Stock. If all these warrants were included, Shlomo Simanovsky could be deemed beneficially to own an aggregate of 187,832,000 shares, or approximately 13.25% of the outstanding shares of Common Stock of the Issuer. See Item 4.
- \*\* Based on 1,323,480,165 shares of Common Stock outstanding as of November 15, 2007. See Item 4.

Page 7 of 11 pages

#### ITEM 1.

(a) Name of Issuer:

Pluristem Therapeutics Inc. (the "Issuer").

(b) Address of Issuer's Principal Executive Offices:

MATAM Advanced Technology Park Building No. 20 Haifa, Israel 31905

#### ITEM 2.

(a) Name of Person Filing:

This Statement is filed by the following persons and entities (the "Reporting Persons"):

- (1) Meitav Gemel Ltd., an Israeli private company ("Meitav Gemel").
- (2) Meitav Underwriting Ltd., an Israeli private company ("Meitav Underwriting").
- (3) Meitav Investment Management Ltd., an Israeli private company ("Meitav Investment Management").
- (4) Meitav Investment House Ltd., an Israeli private company ("Meitav Investment House").
- (5) Zvi Stepak.
- (6) Shlomo Simanovsky.

Meitav Gemel and Meitav Investment are wholly owned subsidiaries of Meitav Investment House. Meitav Underwriting is a majority owned subsidiary of Meitav Investment House. By reason of Meitav Investment House's control of Meitav Gemel, Meitav Investment and Meitav Underwriting, it may be deemed to be the beneficial owner of, and to share the power to vote and dispose of, the Shares owned beneficially by these entities. See Item 4.

Messrs. Zvi Stepak and Shlomo Simanovsky are the sole shareholders, through intermediary entities, of Meitav Investment House. Messrs. Stepak and Simanovsky, by reason of their interests in Meitav Investment House, may each be deemed to be the beneficial owner of, and to share the power to vote and dispose of, the Shares owned beneficially by Meitav Investment House. See Item 4.

(b) Address of Principal Business Offices or, if none, Residence:

c/o Meitav Investment House Ltd.
4 Berkowitz Street, Museum Tower
Tel Aviv 61180
Tsrael

(c) Citizenship:

Citizenship or place of organization of all Reporting Persons, as the case may be, is Israel.

(d) Title of Class of Securities:

Common Stock, par value \$0.00001 per share (the "Shares").

(e) CUSIP Number:

72940P106

Page 8 of 11 pages

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO SS.SS.240.13D-1(B) OR 240.13D-2(B) OR (C), CHECK WHETHER THE PERSON FILING IS A:

Not applicable.

ITEM 4. OWNERSHIP

Percentages are based on 1,323,480,165 Shares outstanding as of November 15,

2007, as the Issuer advised the Reporting Persons:

The 70,206,498 Shares reported in this Statement as beneficially owned by Meitav Gemel are held by Meitav Gemel (or its wholly owned subsidiaries) for members of the public through, among others, provident, retirement and pension funds.

The 29,061,386 Shares reported in this Statement as beneficially owned by Meitav Underwriting are held by it for its own account.

The 37,198,575 Shares reported in this Statement as beneficially owned by Meitav Investment Management are held by it for its own account.

The 136,466,459 Shares reported in this Statement as beneficially owned by Meitav Investment House consist of the Shares beneficially owned by each of Meitav Gemel, Meitav Underwriting and Meitav Investment Management. Of such 136,466,459 Shares, (i) 70,206,498 Shares are held for members of the public through, among others, provident, retirement and pension funds, which are managed by subsidiaries of Meitav Investment House, each of which subsidiaries operates under independent management and makes independent voting and investment decisions and (ii) 66,259,961 Shares are held by Meitav Underwriting and Meitav Investment Management for their own accounts. Consequently, Meitav Investment House disclaims that it is the beneficial owner of 70,206,498 Shares covered by this Statement.

In addition, each of Messrs. Stepak and Simanovsky disclaims that he is the beneficial owner of the 136,466,459 Shares covered by this Statement.

Except as set forth above, see items 5-11 of the cover pages hereto for beneficial ownership, percentage of class and dispositive power of the Reporting Persons, which are incorporated herein.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following [\_].

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

See Item 4.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Not applicable.

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

Not applicable.

ITEM 10. CERTIFICATION

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Page 9 of 11 pages

#### SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

December 17, 2007

MEITAV UNDERWRITING LTD.

By: /s/ Avner Stepak /s/ Yonathan Malca \_\_\_\_\_

Name: Avner Stepak Yonathan Malca

Title:

MEITAV INVESTMENT HOUSE LTD.

\_\_\_\_\_

Name: Avner Stepak Shlomo Simanovsky

Title:

ZVI STEPAK

By: /s/ Zvi Stepak

MEITAV GEMEL LTD.

By: /s/ Avner Stepak /s/ Shlomo Simanovsky -----

Name: Avner Stepak Shlomo Simanovsky

Title:

MEITAV INVESTMENT MANAGEMENT LTD.

By: /s/ Avner Stepak /s/ Shlomo Simanovsky By: /s/ Avner Stepak /s/ Shlomo Simanovsky \_\_\_\_\_

Name: Avner Stepak Shlomo Simanovsky

Title:

SHLOMO SIMANOVSKY

By: /s/ Shlomo Simanovsky

Page 10 of 11 pages

EXHIBIT A

#### JOINT FILING AGREEMENT

The undersigned hereby agree as follows:

- 1. Each of them is individually eligible to file with respect to its investment in Pluristem Therapeutics Inc. (the "Issuer") on Schedule 13G pursuant to Rule 13d-1 under the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act");
- 2. Pursuant to Rule 13d-1(k)(1) under the Exchange Act, each of them hereby agrees to file a joint Schedule 13G and any amendments thereto with respect to the information required to be reported by them with respect to their investment in the Issuer under Section 13 of the Exchange Act and the rules and regulations thereunder; and
- 3. Each of them is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such

information is inaccurate.

December 17, 2007

MEITAV UNDERWRITING LTD. MEITAV GEMEL LTD.

Title: Title:

MEITAV INVESTMENT HOUSE LTD.

By: /s/ Avner Stepak /s/ Shlomo Simanovsky

Name: Avner Stepak Shlomo Simanovsky

Name: Avner Stepak Shlomo Simanovsky

Name: Avner Stepak Shlomo Simanovsky

MEITAV INVESTMENT MANAGEMENT LTD.

Title: Title:

ZVI STEPAK SHLOMO SIMANOVSKY

By: /s/ Zvi Stepak By: /s/ Shlomo Simanovsky

Page 11 of 11 pages