

PLURISTEM THERAPEUTICS INC  
Form SC 13G  
October 17, 2008

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

SCHEDULE 13G  
Under the Securities Exchange Act of 1934

Pluristem Therapeutics Inc.  
(Name of Issuer)

Common Stock, \$0.00001 par value  
(Title of Class of Securities)

72940R102  
(CUSIP Number)

August 7, 2008  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting 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 the disclosures provided in a prior cover page.

The information required in 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).

1.	Names of Reporting Persons.	Enable Capital Management, LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions)		(a) £
			(b) £
3.	SEC Use Only		
4.	Citizenship or Place of Organization	Delaware	
	5.	Sole Voting Power	695,652
	6.	Shared Voting Power	0
	7.	Sole Dispositive Power	695,652
	8.	Shared Dispositive Power	0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person		695,652
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		£
11.	Percent of Class Represented by Amount in Row (9)		9.1%
12.	Type of Reporting Person (See Instructions)		OO

1.	Names of Reporting Persons.	Mitchell S. Levine
2.	Check the Appropriate Box if a Member of a Group (See Instructions)	(a) £
3.	SEC Use Only	(b) £
4.	Citizenship or Place of Organization	United States
	5. Sole Voting Power	695,652
	6. Shared Voting Power	0
	7. Sole Dispositive Power	695,652
	8. Shared Dispositive Power	0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person	695,652
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	£
11.	Percent of Class Represented by Amount in Row (9)	9.1%
12.	Type of Reporting Person (See Instructions)	IN

1.	Names of Reporting Persons.	Enable Growth Partners, L.P.
2.	Check the Appropriate Box if a Member of a Group (See Instructions)	(a) £
3.	SEC Use Only	(b) £
4.	Citizenship or Place of Organization	Delaware
	5. Sole Voting Power	695,652
	6. Shared Voting Power	0
	7. Sole Dispositive Power	695,652
	8. Shared Dispositive Power	0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person	695,652
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	£
11.	Percent of Class Represented by Amount in Row (9)	9.1%
12.	Type of Reporting Person (See Instructions)	PN

Item Name of Issuer:

1(a).

Pluristem Therapeutics Inc.

Item Address of Issuer's Principal Executive Offices:

1(b).

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

Item Names of Persons Filing:

2(a).

Enable Capital Management, LLC ("ECM")

Enable Growth Partners, L.P. ("EGP")

Mitchell S. Levine

Item Address of Principal Business Office or, if none, Residence:

2(b).

The principal business address of the reporting persons is One Ferry Building, Suite 255, San Francisco, CA 94111.

Item Citizenship:

2(c).

Reference is made to Item 4 of pages 2, 3 and 4 of this Schedule 13G (this "Schedule"), which Items are incorporated by reference herein.

Item Title of Class of Securities:

2(d).

Common Stock

Item CUSIP Number:

2(d).

72940R102

Item If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:  
3.

(a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).

(b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).

£ (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).

-5-

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- £ (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- £ (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- £ (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- £ (g) A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- £ (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- £ (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- £ (j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

ItemOwnership:

4.

Reference is hereby made to Items 5-9 and 11 of pages 2, 3 and 4 of this Schedule, which Items are incorporated by reference herein.

The shares of the Issuer's common stock reported as beneficially owned by ECM on this Schedule (the "Securities") are held by or for the benefit of EGP. ECM, as general partner and investment manager of EGP, and Mitchell S. Levine, as managing member and majority owner of ECM, may be deemed to beneficially own the Securities for the purposes of Rule 13d-3 of the Act, insofar as they may be deemed to have the power to direct the voting or disposition of those Securities.

Neither the filing of this Schedule nor any of its contents shall be deemed to constitute an admission that ECM or Mr. Levine is, for any other purpose, the beneficial owner of any of the Securities, and each of ECM and Mr. Levine disclaims beneficial ownership as to the Securities, except to the extent of his or its pecuniary interests therein.

Under the definition of "beneficial ownership" in Rule 13d-3 under the Act, it is also possible that the individual general partners, executive officers, and members of the foregoing entities might be deemed the "beneficial owners" of some or all of the Securities insofar as they may be deemed to share the power to direct the voting or disposition of the Securities. Neither the filing of this Schedule nor any of its contents shall be deemed to constitute an admission that any of such individuals is, for any purpose, the beneficial owner of any of the Securities, and such beneficial ownership is expressly disclaimed.

The calculation of percentage of beneficial ownership in item 11 of pages 2, 3 and 4 was derived from the Issuer's Form 10-QSB Quarterly Report filed with the Securities and Exchange Commission (the "SEC") on May 14, 2008, in which the Issuer stated that the number of shares of its common stock outstanding as of May 5, 2008 was 6,923,715 shares. In calculating the aforementioned percentages, the reporting persons have additionally included some of the Securities known by the reporting persons to have been issued subsequent to the filing of the Form 10-QSB.

ItemOwnership of Five Percent or Less of a Class:

5.

Not applicable.





ItemOwnership of More than Five Percent on Behalf of Another Person

6.

Not Applicable.

ItemIdentification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent

7. Holding Company:

Not applicable.

ItemIdentification and Classification of Members of the Group:

8.

Not applicable.

ItemNotice of Dissolution of Group:

9.

Not applicable.

ItemCertification:

10.

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.

-7-

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Signature

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

Dated: October 17, 2008

ENABLE CAPITAL MANAGEMENT, LLC

By: /s/ Mitchell S. Levine  
Mitchell S. Levine, its Managing Member

ENABLE GROWTH PARTNERS, L.P.

By: Enable Capital Management, LLC,  
its General Partner

By: /s/ Mitchell S. Levine  
Mitchell S. Levine, its Managing Member

MITCHELL S. LEVINE

/s/ Mitchell S. Levine  
Mitchell S. Levine

EXHIBIT INDEX

Exhibit A      Joint Filing Undertaking      Page 9

EXHIBIT A

JOINT FILING UNDERTAKING

The undersigned, being authorized thereunto, hereby execute this agreement as an exhibit to this Schedule 13G to evidence the agreement of the below-named parties, in accordance with rules promulgated pursuant to the Securities Exchange Act of 1934, to file this Schedule, as it may be amended, jointly on behalf of each of such parties.

Dated: October 17, 2008

ENABLE CAPITAL MANAGEMENT, LLC

By: /s/ Mitchell S. Levine  
Mitchell S. Levine, its Managing Member

ENABLE GROWTH PARTNERS, L.P.

By: Enable Capital Management, LLC,  
its General Partner

By: /s/ Mitchell S. Levine  
Mitchell S. Levine, its Managing Member

MITCHELL S. LEVINE

/s/ Mitchell S. Levine  
Mitchell S. Levine

