Kolchinsky Peter Form 4 April 07, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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response...

if no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Last)

(City)

Common

Stock

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * RA CAPITAL MANAGEMENT, LLC

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

BIOSPECIFICS TECHNOLOGIES CORP [BSTC]

(Check all applicable)

3. Date of Earliest Transaction

(Month/Day/Year) 04/01/2009

Officer (give title below)

Director

X 10% Owner Other (specify

C/O RA CAPITAL MANAGEMENT, LLC, 800

BOYLSTON STREET, SUITE 1500 (Street)

(State)

04/01/2009

(First)

(Middle)

(Zip)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

Form filed by One Reporting Person X_ Form filed by More than One Reporting

Person

BOSTON, MA 02199

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

3. 4. Securities Acquired 5. Amount of Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned Securities Beneficially (D) or Owned Indirect (I) Following (Instr. 4) Reported

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Ownership (Instr. 4)

Code V (D) Price Amount

(A)

Transaction(s) (Instr. 3 and 4)

see P I 812,508 18.5 footnote (1)

Common see 04/02/2009 P \$ 19 814,940 (2) 2,432 Α Stock

footnote (1)

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

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(9-02)

SEC 1474

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$\label{thm:convertible} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	le and	8. Price of	9
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	ionNumber	Expiration Da	ate	Amou	int of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired						J
	-				(A) or						J
					Disposed						-
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration	or Title Num			
						Exercisable	Date		of		
				C-1- 1	7 (A) (D)						
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships					
reporting 6 wher runne, runness	Director	10% Owner	Officer	Other		
RA CAPITAL MANAGEMENT, LLC C/O RA CAPITAL MANAGEMENT, LLC 800 BOYLSTON STREET, SUITE 1500 BOSTON, MA 02199		X				
Kolchinsky Peter C/O RA CAPITAL MANAGEMENT, LLC 800 BOYLSTON STREET, SUITE 1500 BOSTON, MA 02199		X				
RA Capital Healthcare Fund LP C/O RA CAPITAL MANAGEMENT, LLC 800 BOYLSTON STREET, SUITE 1500 BOSTON, MA 02199		X				
RA Capital Healthcare Fund II, L.P. C/O RA CAPITAL MANAGEMENT, LLC 800 BOYLSTON STREET, SUITE 1500 BOSTON, MA 02199		X				

Signatures

Peter Kolchinsky, Manager of RA Capital Management, LLC 04/				
	**Signature of Reporting Person	Date		
Peter Kolchinsky		04/07/2009		
	**Signature of Reporting Person	Date		
Peter Kolchinsky, Manager of RA Capital Management, LLC, the General Partner of RA Capital Healthcare Fund, L.P.				

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**Signature of Reporting Person

Date

Peter Kolchinsky, Manager of RA Capital Management, LLC, the General Partner of RA Capital Healthcare Fund II, L.P.

04/07/2009

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- RA Capital Management, LLC (the "General Partner") is the general partner of both Fund I and Fund II, and Peter Kolchinsky is the sole (1) manager of the General Partner. Each of the Reporting Persons disclaims his or its beneficial ownership of any shares of the above named Issuer reported herein, except to the extent of his or its pecuniary interest therein.
- (2) These shares represent 805,500 shares held by RA Capital Healthcare Fund, L.P. ("Fund I"), and 9,440 shares held by RA Capital Healthcare Fund II, L.P. ("Fund II").

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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