BIOSPECIFICS TECHNOLOGIES CORP

Form SC 13G/A February 17, 2009

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

SCHEDULE 13G Under the Securities Exchange Act of 1934

(Amendment No. 2)*

BioSpecifics Technologies Corp.

(Name of Issuer)

Common Stock, par value \$0.001 per share

(Title of Class of Securities)

090931106

(CUSIP Number)

December 31, 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



*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).

CUSIP No. 090931106

1.	Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only). RA Capital Management, LLC			
2.	Check the Ap (a) (b)	propriate Box i o o	f a Member of a Group (See	Instructions)
3.	SEC Use Onl	y		
4.	Citizenship or	r Place of Organ	nization Massachusetts	
Number of		5.	Sole Voting Power	795,436
Shares Beneficially		6.	Shared Voting Power	0
Owned by Each Reporting		7.	Sole Dispositive Power	795,436
Person With		8.	Shared Dispositive Power	0
9.	Aggregate Ar 795,430		ılly Owned by Each Reporti	ng Person
10.		Aggregate Amo s (See Instruction	unt in Row (9) Excludes ons)	0
11.	Percent of Cla 13.2%	ass Represented	by Amount in Row (9)	
12.	Type of Repo	rting Person (So	ee Instructions)	

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CUSIP No. 090931106

1.	Names of Reporting Per I.R.S. Identification No Peter Kolchinsky	rsons. s. of above persons (entities only	y).
2.	Check the Appropriate (a) o (b) o	Box if a Member of a Group (Se	ee Instructions)
3.	SEC Use Only		
4.	Citizenship or Place of	Organization United States	
Number of	5.	Sole Voting Power	795,436
Shares Beneficially	6.	Shared Voting Power	0
Owned by Each Reporting	7.	Sole Dispositive Power	795,436
Person With	8.	Shared Dispositive Power	0
9.	Aggregate Amount Ben 795,436	eficially Owned by Each Report	ting Person
10.	Check if the Aggregate Certain Shares (See Inst	Amount in Row (9) Excludes tructions)	o
11.	Percent of Class Repres 13.2%	ented by Amount in Row (9)	
12.	Type of Reporting Person IN	on (See Instructions)	

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CUSIP No	. 09093110)6			13G	Page 4 of 8	Pages
	1.	I.R.S. Iden	Reporting Person tification Nos. of ital Healthcare F	f above persons (entities only	y).		
	2.	Check the (a) (b)	Appropriate Box o	a if a Member of a Group (Se	ee Instruction	ns)	
	3.	SEC Use (Only				
	4.	Citizenshij	p or Place of Org	anization Delaware			
Number of	f		5.	Sole Voting Power	786,223		
Shares Beneficial	ly		6.	Shared Voting Power	0		
Owned by Each Reporting Person With		7.	Sole Dispositive Power	786,223			
		8.	Shared Dispositive Power	0			
	9.	Aggregate 786,		cially Owned by Each Repor	ting Person		
	10.		ne Aggregate Am ares (See Instruc	nount in Row (9) Excludes tions)	O		
	11.	Percent of Class Represented by Amount in Row (9) 13.1%					
	12.	Type of Reporting Person (See Instructions) PN					

CUSIP No. 090931106

1.		•	bove persons (entities only) d II, L.P.).	
2.	Check the App (a) (b) (c))	a Member of a Group (See	Instruct	ions)
3.	SEC Use Only				
4.	Citizenship or	Place of Organ	ization Delaware		
Number of	5	5.	Sole Voting Power	9,213	
Shares Beneficially Owned by Each Reporting	6	5 .	Shared Voting Power		0
	7	7.	Sole Dispositive Power	9,213	
Person With	8	3.	Shared Dispositive Power		0
9.	Aggregate Am 9,213	ount Beneficia	lly Owned by Each Reporting	ng Perso	n
10.		ggregate Amou (See Instruction	unt in Row (9) Excludes ons)	0	
11.	Percent of Class	ss Represented	by Amount in Row (9)		
12.	Type of Repor PN	ting Person (Se	ee Instructions)		

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Item 1.

(a) Name of Issuer: BioSpecifics Technologies Corp. (the "Issuer").

(b) Address of the Issuer's Principal Executive Offices: 35 Wilbur Street, Lynbrook, NY 11563.

Item 2.

- Name of Person Filing: This joint statement on Schedule 13G is being filed by Peter Kolchinsky, RA Capital Management, LLC, RA Capital Healthcare Fund, L.P. and RA Capital Healthcare Fund II, L.P., who are collectively referred to herein as the "Reporting Persons." Mr. Kolchinsky (the "Manager") is the manager of RA Capital Management, LLC ("Capital"), which is the investment adviser and sole general partner of each of RA Capital Healthcare Fund, L.P. ("Fund I") and RA Capital Healthcare Fund II, L.P. ("Fund II"). The Reporting Persons have entered into a Joint Filing Agreement, dated as of the date hereof, a copy of which is filed with this Schedule 13G as Exhibit 1 (which is incorporated herein by reference), pursuant to which the Reporting Persons have agreed to file this statement jointly in accordance with the provisions of Rule 13d-1(k) under the Act.
- (b) Address of Principal Business Office: The principal business office of the Reporting Persons with respect to the shares reported hereunder is 800 Boylston St., Suite 1500, Boston, MA 02199.
- (c) Citizenship: Capital is a Massachusetts limited liability company. Each of Fund I and Fund II is a Delaware limited partnership. The Manager is a United States citizen.
- (d) Title and Class of Securities: Common stock, par value \$0.001 per share ("Common Stock").
- (e) CUSIP Number: 090931106.

Item 3. 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:

Not applicable.

Item 4. Ownership:

In the aggregate, the Reporting Persons beneficially own 795,436 shares of the Common Stock of the Issuer, representing approximately 13.2% of such class of securities. The beneficial ownership of each Reporting Person is as follows: (i) Fund I beneficially owns 786,223 shares of Common Stock representing approximately 13.1% of the class, (ii) Fund II beneficially owns 9,213 shares of Common Stock representing approximately 0.1% of the class and (iii) Capital, as the investment adviser and sole general partner of each of Fund I and Fund II, and Mr. Kolchinsky as the manager of Capital, each beneficially own 795,436 shares of Common Stock of the Issuer representing approximately 13.2% of the class. The percentage of Common Stock beneficially owned by each Reporting Person is based on a total of 6,006,801 shares of Common Stock of the Issuer outstanding as of November 4, 2008, as reported in the Issuer's most recent Form 10-Q for the quarterly period ended September 30, 2008.

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Each of Fund I and Fund II has the power to vote and dispose of the shares of Common Stock beneficially owned by such entity (as described above). Capital, as the investment adviser and sole general partner of each of Fund I and Fund II, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G. The Manager, by virtue of his position as manager of Capital, has the sole authority to vote and dispose of all of the shares of Common Stock reported in this Schedule 13G.

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Item 5. Ownership of Five Percent or Less of a Class:

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person:

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person:

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 hereby 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.

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	Signature
After reasonable inquiry and to the best of my know statement is true, complete and correct.	ledge and belief, I certify that the information set forth in this
DATE: February 13, 2009	
RA CAPITAL HEALTHCARE FUND, L.P.	
By: RA Capital Management, LLC General Partner	
By: /s/ Peter Kolchinsky	
Peter Kolchinsky Manager	
RA CAPITAL HEALTHCARE FUND II, L.P.	
By: RA Capital Management, LLC General Partner	
By: /s/ Peter Kolchinsky	
Peter Kolchinsky Manager	
RA CAPITAL MANAGEMENT, LLC	
By: /s/ Peter Kolchinsky	
Peter Kolchinsky Manager	
PETER KOLCHINSKY	
/s/ Peter Kolchinsky	

Exhibit 1

JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agrees, as of February 13, 2009, that only one statement containing the information required by Schedule 13G, and each amendment thereto, need be filed with respect to the ownership by each of the undersigned of shares of Common Stock of BioSpecifics Technologies Corp., and such statement to which this Joint Filing Agreement is attached as Exhibit 1 is filed on behalf of each of the undersigned. This Agreement expressly supersedes the Joint Filing Agreement dated September 29, 2008 among the certain of the parties hereto with respect to the filing of information required by Schedule 13G in relation to Common Stock of the Issuer.

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RA CAPITAL HEALTHCARE FUND, L.P.
By: RA Capital Management, LLC General Partner
By: /s/ Peter Kolchinsky
Peter Kolchinsky Manager
RA CAPITAL HEALTHCARE FUND II, L.P.
By: RA Capital Management, LLC General Partner
By: /s/ Peter Kolchinsky
Peter Kolchinsky Manager
RA CAPITAL MANAGEMENT, LLC
By: /s/ Peter Kolchinsky
Peter Kolchinsky Manager
PETER KOLCHINSKY
/s/ Peter Kolchinsky