BSQUARE CORP /WA Form SC 13G/A February 12, 2010

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 2)\*

		BSQUARE CORPORATION	
	(Name	of Issuer)	
		common stock	
	(Title of Cla	ss of Securities)	
		11776U300	
	(CUSIP	Number) December 31, 2009	
	(Date of Event Which R	equires Filing of this	Statement)
	ck the appropriate box to designate edule is filed:	the rule pursuant to v	which this
	[X] Rule 13d-1(b)		
	[_] Rule 13d-1(c)		
	[_] Rule 13d-1(d)		
initiand the The deeme Act of the	e remainder of this cover page shall tial filing on this form with responder of the form and subsequent amendment content of the disclosures provided in a prior of the information required in the remain med to be "filed" for the purpose of 1934 ("Act") or otherwise subject he Act but shall be subject to all the Notes).	ect to the subject class aining information which over page.  der of this cover page f Section 18 of the Sect to the liabilities of	ss of securities, ch would alter shall not be curities Exchange of that section
CUSI	P NO. 11776U300	13G	Page 2 of 8 Pages
(1)	NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF A	BOVE PERSONS (entities	only).
	Renaissance Technologies LLC	26-0385758	
(2)	CHECK THE APPROPRIATE BOX IF A ME (a) [_] (b) [_]	MBER OF A GROUP (SEE IN	NSTRUCTIONS):

(4)	CITIZENSHIP OR PLACE OF ORGA	FION
	Delaware	
		(5) SOLE VOTING POWER
	NUMBER OF SHARES BENEFICIALLY OWNED	604,475
	BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	IERSON WIIII.	0
		(7) SOLE DISPOSITIVE POWER
		604,475
		(8) SHARED DISPOSITIVE POWER
		0
, o )	AGGREGATE MOVIME PRINTERS	THE DV FLOW DEPONENCE DEPONE
(9)		WNED BY EACH REPORTING PERSON
	60	
(10)	(SEE INSTRUCTIONS)	NT IN ROW (9) EXCLUDES CERTAIN SHARES [_]
(11)	PERCENT OF CLASS REPRESENT	Y AMOUNT IN ROW (9)
	5.	
(12)	TYPE OF REPORTING PERSON (S	NSTRUCTIONS)
		2 of 8 pages
CUS	IP NO. 11776U300	13G Page 3 of 8 Page
(1)	NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS.	ABOVE PERSONS (ENTITIES ONLY).
	James H. Simons	
(2)	CHECK THE APPROPRIATE BOX I (a) [_] (b) [_]	MEMBER OF A GROUP (SEE INSTRUCTIONS)
	SEC USE ONLY	

	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	604,475
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	604,475
	(8) SHARED DISPOSITIVE POWE
	0
9) AGGREGATE AMOUNT BENEFIC	ALLY OWNED BY FACH REPORTING DERSON
	ADDI OWNED DI LACH KELOKTING LEKSON
	604,475
(SEE INSTRUCTIONS)	
(SEE INSTRUCTIONS)	604,475 E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(SEE INSTRUCTIONS)	604,475 E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(SEE INSTRUCTIONS)	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  OUTPUT  O
(SEE INSTRUCTIONS)  11) PERCENT OF CLASS REPRES	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  OUTPOSS  NTED BY AMOUNT IN ROW (9)  5.96 %  (SEE INSTRUCTIONS)
(SEE INSTRUCTIONS)  11) PERCENT OF CLASS REPRES  12) TYPE OF REPORTING PERSON	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES   I  NTED BY AMOUNT IN ROW (9)  5.96 %  (SEE INSTRUCTIONS) IN
(SEE INSTRUCTIONS)  11) PERCENT OF CLASS REPRES  12) TYPE OF REPORTING PERSON  CUSIP NO. 11776U300	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  OUTPOSS  NTED BY AMOUNT IN ROW (9)  5.96 %  (SEE INSTRUCTIONS) IN  Page 3 of 8 pages
(SEE INSTRUCTIONS)  11) PERCENT OF CLASS REPRES  12) TYPE OF REPORTING PERSON  CUSIP NO. 11776U300	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  OUTPOSS  NTED BY AMOUNT IN ROW (9)  5.96 %  (SEE INSTRUCTIONS) IN  Page 3 of 8 pages
(SEE INSTRUCTIONS)  11) PERCENT OF CLASS REPRES  12) TYPE OF REPORTING PERSON  CUSIP NO. 11776U300  tem 1.	E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  OUTPOSS  NTED BY AMOUNT IN ROW (9)  5.96 %  (SEE INSTRUCTIONS) IN  Page 3 of 8 pages

110 110th Avenue NE, Suite 200, Bellevue, WA 98004

Item 2.

(a) Name of Person Filing:

This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and James H. Simons ("Simons").

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

Dr. Simons is a United States citizen and RTC is a Delaware limited liability company.

(d) Title of Class of Securities.

common stock

(e) CUSIP Number.

11776U300

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- Item 3. If this statement is filed pursuant to Rule 13d-1 (b) or 13-d-2 (b) or (c), check whether the person filing is a:
- (a) [\_] Broker or dealer registered under section 15 of the Act.
- (b) [\_] Bank as defined in section 3(a)(6) of the Act.
- (c) [\_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [\_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (f) [\_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1(b)(1)(ii)(F).
- (g) [\_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) [\_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (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.
- (j) [\_] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).
- Item 4. Ownership.
  - (a) Amount beneficially owned.

RTC: 604,475 shares

Simons: 604,475 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC.

(b) Percent of Class.

RTC: 5.96 % Simons: 5.96 %

- (c) Number of shares as to which the person has:
  - (i) sole power to vote or to direct the vote:

RTC: 604,475 Simons: 604,475

(ii) Shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of:

RTC: 604,475 Simons: 604,475

(iv) Shared power to dispose or to direct the disposition of:

RTC: 0 Simons: 0

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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 five percent of the class of securities, check the following: [\_]

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

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

RIEF Trading LLC holds of record more than 5% of such securities.

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 a Group.

Not applicable

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Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

### SIGNATURE

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.

Date: February 12, 2010

James H. Simons

Renaissance Technologies LLC

By: Mark Silber
Executive Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

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EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of common stock of BSQUARE CORPORATION.

Date: February 12, 2010

James H. Simons

Renaissance Technologies LLC

By: Mark Silber
Executive Vice President

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