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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

	NEUROMETRIX, INC.	
	ame of Issuer)	
	common stock, par v	alue \$0.0001 per share
Title of C		
(641255104	
	SIP Number)	
(003	December 31, 2009	
	n Requires Filing of thi	
Check the appropriate box to designa Schedule is filed:	ate the rule pursuant to	which this
[X] Rule 13d-1(b)		
[_] Rule 13d-1(c)		
[_] Rule 13d-1(d)		
*The remainder of this cover page sh initial filing on this form with re and for any subsequent amendment co the disclosures provided in a prior	espect to the subject cl ontaining information wh	ass of securities,
The information required in the remadeemed to be "filed" for the purpose Act of 1934 ("Act") or otherwise subject to a see the Notes).	e of Section 18 of the S oject to the liabilities	ecurities Exchange of that section
CUSIP NO. 641255104	 13G	Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS.		
I.R.S. IDENTIFICATION NOS. OF	- ABOVE PERSONS (entitie	s only).
Renaissance Technologies LLC	26-0385758	
(2) CHECK THE APPROPRIATE BOX IF A (a) [_] (b) [_]	MEMBER OF A GROUP (SEE	INSTRUCTIONS):
(3) SEC USE ONLY		
(4) CITIZENSHIP OR PLACE OF ORGANIZA	 ATION	
Delaware		
	(5) SOLE VO	TING POWER
NUMBER OF CHARES		
NUMBER OF SHARES BENEFICIALLY OWNED		4,000
BY EACH REPORTING PERSON WITH:	(6) SHARED	VOTING POWER
	_	0
	(7) SOLE D	TSDOSTTIVE DOWED
	(7) 30LL D	ISPOSITIVE POWER

(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY E	ACH REPORTING PERSON
914,000	
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)	
	[_]
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT	IN ROW (9)
3.98%	
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIO IA	NS)
Page 2 of 8 p	ages ==============
CUSIP NO. 641255104 13G	Page 3 of 8 Pag
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PER James H. Simons	SONS (ENTITIES ONLY).
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF (a) [_]	A GROUP (SEE INSTRUCTIONS)
(p) [_]	
(3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
United States	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	914,000
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	914,000
	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY E	ACH REPORTING PERSON
914,000	ACIT REPORTING PERSON
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)	(9) EXCLUDES CERTAIN SHARES
[_]	
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT	IN ROW (9)
3.98 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIO IN	NS)
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(8) SHARED DISPOSITIVE POWER

Item 1. (a) Name of Issuer NEUROMETRIX, INC. (b) Address of Issuer's Principal Executive Offices. 62 Fourth Avenue, Waltham, Massachusetts 02451 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, par value \$0.0001 per share (e) CUSIP Number. 641255104 Page 4 of 8 pages 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: Broker or dealer registered under section 15 of the Act. (a) [_] Bank as defined in section 3(a)(6) of the Act. (b) [_] (c) [_] Insurance Company as defined in section 3(a)(19) of the Act. Investment Company registered under section 8 of the Investment (d) [_] Company Act. Investment Adviser in accordance with Sec. 240.13d-1(b)(1)(ii)(E). (e) [x] Employee Benefit Plan or Endowment Fund in accordance with (f) [_] Sec. 240.13d-1(b)(1)(ii)(F). Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G). (g) $[_{-}]$ (h) [_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment (i) [_] company under section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J). (j) [_] Item 4. Ownership. (a) Amount beneficially owned. RTC: 914,000 shares Simons: 914,000 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC. (b) Percent of Class. RTC: 3.98 % Simons: 3.98 % (c) Number of shares as to which the person has: (i) sole power to vote or to direct the vote: RTC: 914,000 Simons: 914,000 (ii) Shared power to vote or to direct the vote: 0

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

RTC: 914,000 Simons: 914,000

(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: [X]

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.

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

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).

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, par value \$0.0001 per share of NEUROMETRIX, INC.

Date: February 12, 2010

James H. Simons

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

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