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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

-

NEUROMETRIX, INC.
(Name of Issuer)
common stock, par value \$0.0001 per share
(Title of Class of Securities)
641255203
(CUSIP Number) February 9, 2011
(Date of Event Which Requires Filing of this Statement)

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

- [X] 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).

====	=====					========	:====
CUSI	P NO.	641255203		13G		Page 2 of	⁻ 8 Pages
(1)		S OF REPORTING .S. IDENTIFICAT		BOVE PERSONS	(entities on	ly).	
	Rena	issance Technol	ogies LLC	26-0385758			
(2)	CHECK (a) (b)		E BOX IF A MEM	IBER OF A GROU	JP (SEE INST	RUCTIONS):	
(3)	SEC U	SE ONLY					
(4)	CITIZE	NSHIP OR PLACE	OF ORGANIZATIO	DN			
	Dela	ware					
				(5)	SOLE VOTING	POWER	
	BENEF	(5) SOLE VOTING POWER MBER OF SHARES 207,766 VEFICIALLY OWNED	6				
BY EACH REPORTING PERSON WITH:		(6)	SHARED VOTI	NG POWER			
					0		
				(7)	SOLE DISPO	SITIVE POW	/ER

207,766

(9) AGGREGATE AMOU	NT BENEFICIALLY OWN	ED BY EACH REI	PORTING PERSON		
	207,766				
	HE AGGREGATE AMOUNT	IN ROW (9) E	XCLUDES CERTAIN SHARES		
			[_]		
(11) PERCENT OF CL		AMOUNT IN ROW	(9)		
	5.32 %				
(12) TYPE OF REPORT	IA				
CUSIP NO. 6412552		13G	Page 3 of 8 Pages		
(1) NAMES OF REPOR I.R.S. IDENTI	TING PERSONS. FICATION NOS. OF AB	OVE PERSONS (I	ENTITIES ONLY).		
RENAISSANCE TE	CHNOLOGIES HOLDINGS	CORPORATION	13-3127734		
(a) [_] (b) [_]			UP (SEE INSTRUCTIONS)		
(3) SEC USE ONLY					
(4) CITIZENSHIP OR	PLACE OF ORGANIZATI	ON			
Delaware					
		(5)	(5) SOLE VOTING POWER		
NUMBER OF SHAR BENEFICIALLY O	WNED		207,766		
BY EACH REPORT PERSON WITH:	ING	(6)	(6) SHARED VOTING POWER		
			Θ		
		(7)	SOLE DISPOSITIVE POWER		
			207,766		
		(8)	SHARED DISPOSITIVE POWER		
			0		
(9) AGGREGATE AMOU	NT BENEFICIALLY OWN	ED BY EACH REI	PORTING PERSON		
	207,766				
(10) CHECK BOX IF T (SEE INSTRUCT		IN ROW (9) E	XCLUDES CERTAIN SHARES		
(11) PERCENT OF CL		AMOUNT IN ROW	(9)		
(_,	5.32 %		V - 7		
(12) TYPE OF REPORT	ING PERSON (SEE INS HC	TRUCTIONS)			
	Page 3	of 8 pages			

). 641255203 13G Page 4 of 8 Pages					
Item 1.). 641255203 13G Page 4 of 8 Pages					
	Name of Issuer					
	NEUROMETRIX, INC.					
	Address of Issuer's Principal Executive Offices.					
(-)	62 Fourth Avenue, Waltham, Massachusetts 02451					
Item 2.						
(a) 1	Name of Person Filing:					
	This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and Renaissance Technologies Holdings Corporation ("RTHC").					
(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.					
	RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.					
(d)	Title of Class of Securities.					
	common stock, par value \$0.0001 per share					
(e)	CUSIP Number.					
	641255203					
	Page 4 of 8 pages					
	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) [_] (b) [_] (c) [_] (d) [_] (e) [x]	 [_] Bank as defined in section 3(a)(6) of the Act. [_] Insurance Company as defined in section 3(a)(19) of the Act. [_] Investment Company registered under section 8 of the Investment Company Act. 					
(f) [_]	Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1(b)(1)(ii)(F).					
(g) [_] (h) [_]	Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.					
(i) [_] (j) [_]	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. Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).					
Item 4. (Dwnership.					
	Amount beneficially owned.					
	RTC: 207,766 shares RTHC: 207,766 shares, comprising the shares beneficially owner by RTHC, because of RTHC's majority ownership of RTC.					
(b) [Percent of Class.					
F	RTC: 5.32 % RTHC: 5.32 %					
(c)	Number of shares as to which the person has:					
	(i) sole power to vote or to direct the vote:					
	RTC: 207,766 RTHC: 207,766					

(ii) Shared power to vote or to direct the vote: Θ (iii) sole power to dispose or to direct the disposition of: RTC: 207,766 RTHC: 207,766 (iv) Shared power to dispose or to direct the disposition of: RTC: 0 RTHC: 0 Page 5 of 8 pages ______ 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 $\ensuremath{\mathsf{RTC}}$ 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 Page 6 of 8 pages _____ 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 13, 2012

Renaissance Technologies LLC

By: Mark Silber Executive Vice President

By: Mark Silber Vice President

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

Page 7 of 8 Pages

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 13, 2012

Renaissance Technologies LLC

By: Mark Silber Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

Page 8 of 8 Pages