NeuroMetrix, Inc. Form SC 13G February 14, 2018

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

	NEUROMETRIX, INC.	
	(Name of Issuer)	
C	ommon stock, par value \$	0.0001 per share
(Title o	f Class of Securities)	
	641255708	
(	CUSIP Number) December 18, 2017	
(Date of Event Wh	ich Requires Filing of t	his Statement)
Check the appropriate box to desi Schedule is filed:	gnate 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 initial filing on this form with and for any subsequent amendment the disclosures provided in a pr	respect to the subject containing information	class of securities,
The information required in the r deemed to be "filed" for the purp Act of 1934 ("Act") or otherwise of the Act but shall be subject t see the Notes).	ose of Section 18 of the subject to the liabiliti	Securities Exchange es of that section
CUSIP NO. 641255708	13G	Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS.	OF ABOVE PERSONS (entit	ies only).
Renaissance Technologies LL	C 26-0385758	
(2) CHECK THE APPROPRIATE BOX IF (a) [_]	A MEMBER OF A GROUP (SE	E INSTRUCTIONS):

	(b) [_]			
(3)	SEC USE ONLY			
(4)	CITIZENSHIP OR PLACE OF O	RGANIZATION		
	Delaware			
			(5)	SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED			123,783	
	BY EACH REPORTING PERSON WITH:		(6)	SHARED VOTING POWER
			0	
			(7)	SOLE DISPOSITIVE POWER
				123,783
			(8)	SHARED DISPOSITIVE POWER
			0	
(9)	AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY EAC!	H REI	PORTING PERSON
		123,783		
(10)	CHECK BOX IF THE AGGREGA	TE AMOUNT IN ROW (	 9) E	KCLUDES CERTAIN SHARES
	(SEE INSTRUCTIONS)			[_]
(11)	PERCENT OF CLASS REPRES	ENTED BY AMOUNT IN	ROW	(9)
		5.28 %		
(12)	TYPE OF REPORTING PERSON IA	(SEE INSTRUCTIONS	)	
		Page 2 of 8 page	es	
	IP NO. 641255708	13G		Page 3 of 8 Page
(1)	NAMES OF REPORTING PERSO	NS.		ENTITIES ONLY).
	RENAISSANCE TECHNOLOGIES	HOLDINGS CORPORAT	ION	13-3127734
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [_]  (b) [_]			
(3)	SEC USE ONLY			

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH: (6) S	SOLE VOTING POWER	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:  (6) S  (7)  (8)  (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCUSE INSTRUCTIONS)  [_]	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:  (6) S  (7)  (8)  (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORT  123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)  [_]		
PERSON WITH: (6) S  (7)  (8)  (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORT  123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC  (SEE INSTRUCTIONS)  [_]	123,783	
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPO 123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)  [_]	SHARED VOTING POWER	
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPO 123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)  [_]	0	
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPO 123,783 (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)	SOLE DISPOSITIVE POWER	
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPO 123,783 (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)	123,783	
123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC  (SEE INSTRUCTIONS)  [_]	SHARED DISPOSITIVE POWER	
123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC  (SEE INSTRUCTIONS)  [_]	0	
123,783  (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC  (SEE INSTRUCTIONS)  [_]		
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXC (SEE INSTRUCTIONS)	ORTING PERSON	
(SEE INSTRUCTIONS) [_]		
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW	CLUDES CERTAIN SHARES	
	(9)	
5.28 %		
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  HC		
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Item 1.		
(a) Name of Issuer		
NEUROMETRIX, INC.		
(b) Address of Issuer's Principal Executive Offic	ces.	
1000 Winter Street, Waltham, Massachusetts (	02451	
Item 2.		
(a) Name of Person Filing:		
This Schedule 13G is being filed by Renaissa	ance Technologies LLC	

(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.

641255708

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\_\_\_\_\_\_

- (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: 123,783 shares

RTHC: 123,783 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 5.28 % RTHC: 5.28 %

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

RTC: 123,783 RTHC: 123,783

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

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

RTC: 123,783 RTHC: 123,783

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

RTC: 0 RTHC: 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.

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 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber 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, par value \$0.0001 per share of NEUROMETRIX, INC.

Date: February 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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