SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549
SCHEDULE 13G (Rule 13d-102)
INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)
(Amendment No. 2)*
NeuroMetrix, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
641255104
(CUSIP Number)
September 9, 2009
(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 13d-1(b) |X| Rule 13d-1(c) |_| Rule 13d-1(d)

(Page 1 of 14 Pages)

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* 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 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).

			13G	Page 2 of 14
CUSIP	No. 6412	551(94	
1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Capital, L.P.			
2.	CHECK TH		PPROPRIATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) X
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
		5.	SOLE VOTING POWER	
			Θ	
NUMBER OF SHARES BENEFICIALLY OWNED BY		6.	SHARED VOTING POWER	
			2,449,194*	

EACH 7. SOLE DISPOSITIVE POWER REPORTING PERSON Θ -----WTTH 8. SHARED DISPOSITIVE POWER 2,449,194* _____ 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,449,194* _ _ _ _ _ _ _____ 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* |_| 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 10.30%* _____ - ----12. TYPE OF REPORTING PERSON* PN

* Comprised of 1,572,705 shares and 876,489 shares underlying warrants held by Deerfield Special Situations Fund, L.P. The provisions of such warrants restrict the exercise of such warrants to the extent that, upon such exercise, the number of shares then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a group would exceed 19.99% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap. In addition, the warrants are not exercisable until March 8, 2010. As a result, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares until 60 days prior to such date.

CUSIP No.	641255104				
	. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
Dee	Deerfield Special Situations Fund, L.P.				
2. CHE	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) X				
3. SEC	SEC USE ONLY				
4. CIT	CITIZENSHIP OR PLACE OF ORGANIZATION				
Del	ware				
	5. SOLE VOTING POWER				
	0				
NUMBER					
	LLY 2,449,194*				
OWNED E EACH	7. SOLE DISPOSITIVE POWER				
REPORTI PERSON	0				
WITH	8. SHARED DISPOSITIVE POWER				
	2,449,194*				
9. AGG	EGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
2,4	9,194*				
10. CHE	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ _ $				
 11. PER	ENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
10.	0%*				
12. TYP	OF REPORTING PERSON*				
PN	PN				
Deerfield	d of 1,572,705 shares and 876,489 shares underlying warrants held by Special Situations Fund, L.P. The provisions of such warrants restrict				

Deerfield Special Situations Fund, L.P. The provisions of such warrants restrict the exercise of such warrants to the extent that, upon such exercise, the number of shares then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a group would exceed 19.99% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap. In addition, the warrants are not exercisable until March 8, 2010. As a result, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying the warrants until 60 days prior to such date.

CUSIP No. 641255104					
	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
Deerfiel	d Management Company, L.P.				
2. CHECK TH	HE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) X				
3. SEC USE	3. SEC USE ONLY				
4. CITIZENSHIP OR PLACE OF ORGANIZATION					
New York					
	5. SOLE VOTING POWER				
	Θ				
NUMBER OF	6. SHARED VOTING POWER				
	IEFICIALLY 4,365,718*				
OWNED BY EACH	H 7. SOLE DISPOSITIVE POWER				
REPORTING PERSON	0				
WITH	8. SHARED DISPOSITIVE POWER				
	4,365,718*				
9. AGGREGA	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
4,365,71					
10. CHECK BC	10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* $ _ $				
11. PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
17.85%					
12. TYPE OF	. TYPE OF REPORTING PERSON*				
PN	PN				
* Comprised of 2,820,968 shares and 1,544,750 shares underlying warrants held by Deerfield Special Situations Fund International Limited. The provisions of such warrants restrict the exercise of such warrants to the extent that, upon such exercise, the number of shares then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a group would exceed 19.99% of the total number of shares of the					

affiliates and any other person or entities with which such holder would constitute a group would exceed 19.99% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap. In addition, the warrants are not exercisable until March 8, 2010. As a result, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying the warrants until 60 days prior to such date.

CUSIP No. 641255104				
	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
Deerfield Special Situations Fund International Limited				
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) $ _{-} $ (b) $ X $				
3. SEC USE	ONLY			
4. CITIZENS	. CITIZENSHIP OR PLACE OF ORGANIZATION			
British	Virgin Islands			
	5. SOLE VOTING POWER			
	0			
NUMBER OF	6. SHARED VOTING POWER			
	4,365,718*			
OWNED BY EACH	7. SOLE DISPOSITIVE POWER			
REPORTING PERSON	Θ			
WITH	8. SHARED DISPOSITIVE POWER			
	4,365,718*			
9. AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
4,365,718*				
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* _				
11. PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
17.85%				
12. TYPE OF REPORTING PERSON*				
CO				
* Comprised of 2,820,968 shares and 1,544,750 shares underlying warrants held by Deerfield Special Situations Fund International Limited. The provisions of such warrants restrict the exercise of such warrants to the extent that, upon such exercise, the number of shares then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a group would exceed 19.99% of the total number of shares of the				

constitute a group would exceed 19.99% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap. In addition, the warrants are not exercisable until March 8, 2010. As a result, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying the warrants until 60 days prior to such date.

CUSIP No. 641255104				
	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
James E. Flynn				
2. CHECK TH		(a) _ (b) X		
3. SEC USE	ONLY			
4. CITIZENS	SHIP OR PLACE OF ORGANIZATION			
United S	States			
	5. SOLE VOTING POWER			
	Θ			
NUMBER OF	6. SHARED VOTING POWER			
	6,814,912*			
OWNED BY EACH	7. SOLE DISPOSITIVE POWER			
REPORTING PERSON	0			
WITH	8. SHARED DISPOSITIVE POWER			
	6,814,912*			
9. AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
6,814,91				
10. CHECK BC	10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* _			
11. PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
19.99%*	of seass kerkesenter of Anson in Kow (3)			
	REPORTING PERSON*			
IN				
Deerfield Spec International such warrants beneficially of entities with the total numb Accordingly, r	f 4,393,673 shares and 2,421,239 shares underlying warrants cial Situations Fund, L.P. and Deerfield Special Situations Limited. The provisions of such warrants restrict the exerc to the extent that, upon such exercise, the number of share owned by the holder and its affiliates and any other person which such holder would constitute a group would exceed 19. ber of shares of the Issuer then outstanding (the "Ownership notwithstanding the number of shares reported, the reporting eficial ownership of the shares underlying such warrants to	Fund ise of s then or 99% of Cap"). person		

disclaims beneficial ownership of the shares underlying such warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap. In addition, the warrants are not exercisable until March 8, 2010. As a result, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying the warrants until 60 days prior to such date.

_ _ _ _ _ _ _ _ _ _ Item 1(a). Name of Issuer: NeuroMetrix, Inc. Item 1(b). Address of Issuer's Principal Executive Offices: 62 Fourth Avenue Waltham, MA 02451 _____ Item 2(a). Name of Person Filing: James E. Flynn, Deerfield Capital, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., Deerfield Special Situations Fund International Limited Item 2(b). Address of Principal Business Office, or if None, Residence: James E. Flynn, Deerfield Capital, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017, Deerfield Special Situations Fund International Limited, c/o Bisys Management, Bison Court, Columbus Centre, P.O. Box 3460, Road Town, Tortola, British Virgin Islands Item 2(c). Citizenship: Mr. Flynn - United States citizen Deerfield Capital, L.P. and Deerfield Special Situations Fund, L.P. - Delaware limited partnerships, Deerfield Management Company, L.P. - New York limited partnership, Deerfield Special Situations $\ensuremath{\mathsf{Fund}}$ International Limited- British Virgin Islands corporation . Item 2(d). Title of Class of Securities: Common Stock Item 2(e). CUSIP Number: 641255104 _ _ _ _ _ _ _ _ Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a: [_] Broker or dealer registered under Section 15 of the Exchange (a) Act. (b) [_] Bank as defined in Section 3(a)(6) of the Exchange Act. [_] Insurance company as defined in Section 3(a)(19) of the Exchange (C) Act.

CUSIP No.

641255104

(d) [_] Investment company registered under Section 8 of the Investment Company Act.

(e)	[_]	<pre>An investment adviser in accordance with Rul 13d-1(b)(1)(ii)(E);</pre>	e
(f)	[_]	An employee benefit plan or endowment fund i Rule 13d-1(b)(1)(ii)(F);	n accordance with
(g)	[_]	A parent holding company or control person i Rule 13d-1(b)(1)(ii)(G);	n accordance with
(h)	[_]	A savings association as defined in Section Deposit Insurance Act;	3(b) of the Federal
(i)	[_]	A church plan that is excluded from the defi investment company under Section 3(c)(14) of Company Act;	
(j)	[_]	Group, in accordance with Rule 13d-1(b)(1)(i	.i)(J).
Item 4. Ow	nersl	hip. **	
		he following information regarding the aggreg he class of securities of the issuer identifi	
(a) A	moun	t beneficially owned:	
Deerfield Capital, L.P 2,449,194 Shares Deerfield Special Situations Fund, L.P 2,449,194 Shares Deerfield Management Company, L.P 4,365,718 Shares Deerfield Special Situations Fund International Limited - 4,365,718 Shares James E. Flynn - 6,814,912 Shares			
(b) P	Percei	nt of class:	
Deerfield Capital, L.P 10.30% Deerfield Special Situations Fund, L.P 10.30% Deerfield Management Company, L.P 17.85% Deerfield Special Situations International Limited - 17.85% James E. Flynn - 19.99%			
(c) N	lumbe	r of shares as to which such person has:	
	(i) Sole power to vote or to direct the vote: All ReportingPersons 0		
	ii)	Shared power to vote or to direct the vote	Deerfield Capital, L.P 2,449,194 Shares Deerfield Special Situations Fund, L.P 2,449,194 Shares Deerfield Management Company, L.P 4,365,718 Shares Deerfield Special Situations Fund International Limited - 4,365,718 Shares James E. Flynn - 6,814,912 Shares
(,TTT)	Sole power to dispose or to direct the disposition of	All Reporting Persons - 0

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

Deerfield Capital, L.P. - 2,449,194 Shares Deerfield Special Situations Fund, L.P. - 2,449,194 Shares Deerfield Management Company, L.P. -4,365,718 Shares Deerfield Special Situations Fund International Limited - 4,365,718 Shares James E. Flynn -6,814,912 Shares

 ** Please see the footnotes to the cover pages to this Schedule 13G, which are hereby incorporated by reference.

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.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

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

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B.

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I 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 such purpose or effect."

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, ${\tt I}$ certify that the information set forth in this statement is true, complete and correct.

- DEERFIELD CAPITAL, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

- By: Deerfield Capital, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

- By: Flynn Management LLC General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD SPECIAL SITUATIONS FUND INTERNATIONAL LIMITED

By: Deerfield Management Company

- By: Flynn Management LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

JAMES E. FLYNN

/s/ Darren Levine Darren Levine, Attorney-In-Fact

Date: September 11, 2009

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. (1) Power of Attorney

(1) Previously filed as Exhibit 24 to a Form 3 with regard to NeuroMetrix, Inc. filed with the Commission on December 5, 2008 by Deerfield Capital L.P.; Deerfield Management Company, L.P.; Deerfield Special Situations Fund, L.P.; Deerfield Special Situations Fund International Limited; and James E. Flynn.

Exhibit A

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of Neurometrix, Inc. shall be filed on behalf of the undersigned.

- DEERFIELD CAPITAL, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory
- DEERFIELD SPECIAL SITUATIONS FUND, L.P.
- By: Deerfield Capital, L.P.
- By: J.E. Flynn Capital LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

- By: Flynn Management LLC General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

DEERFIELD SPECIAL SITUATIONS FUND INTERNATIONAL LIMITED

By: Deerfield Management Company

- By: Flynn Management LLC, General Partner
- By: /s/ Darren Levine Darren Levine, Authorized Signatory

JAMES E. FLYNN

/s/ Darren Levine Darren Levine, Attorney-In-Fact

Exhibit B

Due to the relationships between them, the reporting persons hereunder may be deemed to constitute a "group" with one another for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934.