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SCHEDULE 13G

Amendment No. 2
NeuroMetrix Incorporated
Common Stock
Cusip #641255104

Cusip #641255104

Cusip #641255104

Item 1: Reporting Person - FMR Corp.
Item 4: Delaware
Item 5: 6,100
Item 6: 0
Item 7: 1,887,267
Item 8: 0
Item 9: 1,887,267
Item 11: 15.000%
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Cusip #641255104

Item 1: Reporting Person - Edward C. Johnson 3d

HC

Item 4: United States of America

Item 5: 0
Item 6: 0

Item 12:

Item 7: 1,887,267

Item 8: 0

Item 9: 1,887,267

Item 11: 15.000% Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Item 1(a).
Name of Issuer:

NeuroMetrix Incorporated

Item 1(b). Name of Issuer's Principal Executive Offices:

62 Fourth Avenue Waltham, MA 02451

Item 2(a). Name of Person Filing:

FMR Corp.

Item 2(b). Address or Principal Business Office or, if None,

Residence:

82 Devonshire Street, Boston,

Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

641255104

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) and the person filing, FMR Corp., is a parent holding company in accordance with Section 240.13d-1(b)(ii)(G). (Note: See Item 7).

Item 4. Ownership

(a) Amount Beneficially Owned: 1,887,267

- (b) Percent of Class: 15.000%
- (c) Number of shares as to which such person has:
- (i) sole power to vote or to direct the vote: 6,100
- (ii) shared power to vote or to direct the vote: $\ensuremath{\text{0}}$
- (iii) sole power to dispose or to direct the disposition of: 1,887,267
- (iv) shared power to dispose or to direct the disposition of: 0 $\,$

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable.

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

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock of NeuroMetrix Incorporated. The interest of one person, Fidelity Aggressive Growth Fund, an investment company registered under the Investment Company Act of 1940, in the Common Stock of NeuroMetrix Incorporated, amounted to 986,750 shares or 7.843% of the total outstanding Common Stock at December 31, 2006. The interest of one person, Select Med Equip And Systems, an investment company registered under the Investment Company Act of 1940, in the Common Stock of NeuroMetrix Incorporated, amounted to 691,200 shares or 5.494% of the total outstanding Common Stock at December 31, 2006.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

See attached Exhibit A.

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

Not applicable. See attached Exhibit A.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired 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, I certify that the information set forth in this statement is true, complete and correct.

February 14, 2007 Date

/s/Eric D. Roiter Signature

Eric D, Roiter
Duly authorized under Power of Attorney
dated December 30, 1997 by and on behalf of FMR Corp. and

SCHEDULE 13G - TO BE INCLUDED IN **STATEMENTS**

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Pursuant to the instructions in Item 7 of Schedule 13G, Fidelity Management & Research Company ("Fidelity"), 82 Devonshire Street, Boston, Massachusetts 02109, a whollyowned subsidiary of FMR Corp. and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 1,881,167 shares or 14.952% of the Common Stock outstanding of NeuroMetrix Incorporated ("the Company") as a result of acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940.

The ownership of one investment company, Fidelity Aggressive Growth Fund, amounted to 986,750 shares or 7.843% of the Common Stock outstanding. Fidelity Aggressive Growth Fund has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

The ownership of one investment company, Select Med Equip And Systems, amounted to 691,200 shares or 5.494% of the Common Stock outstanding. Select Med Equip And Systems has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

Edward C. Johnson 3d and FMR Corp., through its control of Fidelity, and the funds each has sole power to dispose of the 1,881,167 shares owned by the Funds.

Members of the family of Edward C. Johnson 3d, Chairman of FMR Corp., are the predominant owners, directly or through trusts, of Series B shares of common stock of FMR Corp., representing 49% of the voting power of FMR Corp. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B shares will be voted in accordance with the majority vote of Series B shares. Accordingly, through their ownership of voting common stock and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR Corp.

Neither FMR Corp. nor Edward C. Johnson 3d, Chairman of FMR Corp., has the sole power to vote or direct the voting of the shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the shares under written guidelines established by the Funds' Boards of Trustees.

Pyramis Global Advisors Trust Company ("PGATC"), 53 State Street, Boston, Massachusetts, 02109, an indirect wholly-owned subsidiary of FMR Corp. and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 6,100 shares or 0.048% of the outstanding Common Stock of the NeuroMetrix Incorporated as a result of its serving as investment manager of institutional accounts owning such shares.

Edward C. Johnson 3d and FMR Corp., through its control of Pyramis Global Advisors Trust Company, each has sole dispositive power over 6,100 shares and sole power to vote or to direct the voting of 6,100 shares of Common Stock owned by the institutional accounts managed by PGATC as reported above.

SCHEDULE 13G - TO BE INCLUDED IN

STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b) RULE 13d-1(f)(1) AGREEMENT

The undersigned persons, on February 14, 2007, agree and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the Common Stock of NeuroMetrix Incorporated at December 31, 2006.

FMR Corp.

By /s/ Eric D. Roiter Eric D. Roiter Duly authorized under Power of Attorney dated December 30, 1997, by and on behalf of FMR Corp. and its direct and indirect subsidiaries

Edward C. Johnson 3d

By /s/ Eric D. Roiter Eric D. Roiter Duly authorized under Power of Attorney

Duly authorized under Power of Attorney dated December 30, 1997, by and on behalf of Edward C. Johnson 3d

Fidelity Management & Research Company

By /s/ Eric D. Roiter Eric D. Roiter Senior V.P. and General Counsel

Fidelity Aggressive Growth Fund

By /s/ Eric D. Roiter Eric D. Roiter Secretary

Select Med Equip And Systems

By /s/ Eric D. Roiter Eric D. Roiter Secretary