Neuronetics, Inc.

(Name of Issuer)

Common Stock
(Title of Class of Securities)

64131A105
(CUSIP Number)

December 31, 2019
(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)
☒ Rule 13d-1(c)
☐ Rule 13d-1(d)

(Page 1 of 10 Pages)

* 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).
NAME OF REPORTING PERSONS
Deerfield Mgmt, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

SEC USE ONLY

CITIZENSHIP OR PLACE OF ORGANIZATION
Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

<table>
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<tr>
<th></th>
<th>5.</th>
<th>6.</th>
<th>7.</th>
<th>8.</th>
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<tbody>
<tr>
<td></td>
<td>SOLE VOTING POWER</td>
<td>SHARED VOTING POWER</td>
<td>SOLE DISPOSITIVE POWER</td>
<td>SHARED DISPOSITIVE POWER</td>
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<td></td>
<td>0</td>
<td>1,075,000 (1)</td>
<td>0</td>
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</table>

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,075,000 (1)

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

5.77%

TYPE OF REPORTING PERSON*
PN

---

(1) Comprised of shares of common stock held by Deerfield Special Situations Fund, L.P. and Deerfield Partners, L.P., of which Deerfield Mgmt, L.P. is the general partner.
1. NAME OF REPORTING PERSONS  
   I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)  
   Deerfield Management Company, L.P.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*  
   (a) ☐  
   (b) ☒  

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION  
   Delaware

<table>
<thead>
<tr>
<th>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</th>
<th>5. SOLE VOTING POWER</th>
<th>6. SHARED VOTING POWER</th>
<th>7. SOLE DISPOSITIVE POWER</th>
<th>8. SHARED DISPOSITIVE POWER</th>
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</table>

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
   1,075,000 (2)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*  ☐

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
    5.77%

12. TYPE OF REPORTING PERSON*  
    PN

(2) Comprised of shares of common stock held by Deerfield Partners, L.P. and Deerfield Special Situations Fund, L.P., of which Deerfield Management Company, L.P. is the investment advisor.
<table>
<thead>
<tr>
<th></th>
<th>NAME OF REPORTING PERSONS</th>
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<tr>
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2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
   (a) ☐
   (b) ☒

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION
   Delaware

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<th>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</th>
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9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
   735,488

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* ☐

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
    3.95%

12. TYPE OF REPORTING PERSON*
    PN
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<td>6. SHARED VOTING POWER</td>
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<th>CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*</th>
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<th>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9</th>
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<tr>
<td>11.</td>
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<td>12.</td>
<td>PN</td>
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</table>
1. NAME OF REPORTING PERSONS
   I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)
   James E. Flynn

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
   (a) ☐
   (b) ☒

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION
   United States

<table>
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<tr>
<th>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</th>
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<td>6. SHARED VOTING POWER</td>
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<td></td>
<td>8. SHARED DISPOSITIVE POWER</td>
<td>1,075,000 (4)</td>
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9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
   1,075,000 (4)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* ☐

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
    5.77%

12. TYPE OF REPORTING PERSON*
    IN

(4) Comprised of shares of common stock held by Deerfield Partners, L.P. and Deerfield Special Situations Fund, L.P.
Item 1(a).  Name of Issuer:

Neuronetics, Inc.

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

3222 Phoenixville Pike
Malvern, PA 19355

Item 2(a).  Name of Person Filing:


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


Item 2(c).  Citizenship:

Deerfield Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Partners, L.P. and Deerfield Special Situations Fund, L.P. - Delaware limited partnerships;

James E. Flynn – United States citizen

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

Common Stock

Item 2(e).  CUSIP Number:

64131A105

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:

(a)  ☐ Broker or dealer registered under Section 15 of the Exchange Act.

(b)  ☐ Bank as defined in Section 3(a)(6) of the Exchange Act.

(c)  ☐ Insurance company as defined in Section 3(a)(19) of the Exchange Act.

(d)  ☐ Investment company registered under Section 8 of the Investment Company Act.

(e)  ☐ An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);

(f)  ☐ An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);

(g)  ☐ A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);

(h)  ☐ A savings association 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;
(j) ☐ A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J);

(k) ☐ Group, in accordance with Rule 13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: ________________

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned**:
   Deerfield Mgmt, L.P. - 1,075,000 shares
   Deerfield Management Company, L.P. - 1,075,000 shares
   Deerfield Partners, L.P. - 735,488 shares
   Deerfield Special Situations Fund, L.P. - 339,512 shares
   James E. Flynn – 1,075,000 shares

(b) Percent of class**:
   Deerfield Mgmt, L.P. – 5.77%
   Deerfield Management Company, L.P. – 5.77%
   Deerfield Partners, L.P. - 3.95%
   Deerfield Special Situations Fund, L.P. – 1.82%
   James E. Flynn – 5.77%

(c) Number of shares as to which such person has**:
   (i) Sole power to vote or to direct the vote:
      All Reporting Persons - 0
   (ii) Shared power to vote or to direct the vote:
      Deerfield Mgmt, L.P. - 1,075,000
      Deerfield Management Company, L.P. - 1,075,000
      Deerfield Partners, L.P. - 735,488
      Deerfield Special Situations Fund, L.P. - 339,512
      James E. Flynn – 1,075,000
   (iii) Sole power to dispose or to direct the disposition of:
      All Reporting Persons - 0
   (iv) Shared power to dispose or to direct the disposition of:
      Deerfield Mgmt, L.P. - 1,075,000
      Deerfield Management Company, L.P. - 1,075,000
      Deerfield Partners, L.P. - 735,488
      Deerfield Special Situations Fund, L.P. - 339,512
      James E. Flynn – 1,075,000

**See footnotes on cover pages which are incorporated by reference herein.

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


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 that purpose or effect, other than activities solely in connection with a nomination under §240.14a–11."
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.

DEERFIELD MGMT, L.P.
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
   Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.
By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler
   Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.
By: Deerfield Mgmt, L.P., General Partner
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
   Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.
By: Deerfield Mgmt, L.P., General Partner
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
   Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

/s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact

Date: February 13, 2020
Exhibit List

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. Power of Attorney (1).

Exhibit A

Joint Filing Agreement

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

DEERFIELD MGMT, L.P.
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.
By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.
By: Deerfield Mgmt, L.P., General Partner
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.
By: Deerfield Mgmt, L.P., General Partner
By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

/s/ Jonathan Isler
Jonathan Isler, Attorney-In-Fact
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.