

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>BVF PARTNERS L P/IL</u> (Last) (First) (Middle) 900 N. MICHIGAN AVE., SUITE 1100 (Street) CHICAGO IL 60611 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>NEUROCRINE BIOSCIENCES INC [NBIX]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 10/10/2011	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, par value \$0.001 ⁽¹⁾	10/10/2011		P		15,800 ⁽²⁾	A	\$5.5879	1,230,465	I ⁽³⁾	By Biotechnology Value Fund, L.P.
Common Stock, par value \$0.001 ⁽¹⁾	10/10/2011		P		9,600 ⁽²⁾	A	\$5.5879	756,600	I ⁽⁴⁾	By Biotechnology Value Fund II, L.P.
Common Stock, par value \$0.001 ⁽¹⁾	10/10/2011		P		44,700 ⁽²⁾	A	\$5.5879	3,501,600	I ⁽⁵⁾	By BVF Investments, L.L.C. ⁽⁶⁾
Common Stock, par value \$0.001 ⁽¹⁾	10/11/2011		P		3,800 ⁽²⁾	A	\$5.7285	3,505,400	I ⁽⁵⁾	By BVF Investments, L.L.C. ⁽⁶⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person*
BVF PARTNERS L P/IL
 (Last) (First) (Middle)
 900 N. MICHIGAN AVE., SUITE 1100
 (Street)
 CHICAGO IL 60611
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
BIOTECHNOLOGY VALUE FUND L P
 (Last) (First) (Middle)
 900 N. MICHIGAN AVE., SUITE 1100

(Street)
CHICAGO IL 60611

(City) (State) (Zip)

1. Name and Address of Reporting Person*
[BIOTECHNOLOGY VALUE FUND II LP](#)

(Last) (First) (Middle)
900 N. MICHIGAN AVE., SUITE 1100

(Street)
CHICAGO IL 60611

(City) (State) (Zip)

1. Name and Address of Reporting Person*
[BVF INVESTMENTS LLC](#)

(Last) (First) (Middle)
900 N. MICHIGAN AVENUE, SUITE 1100

(Street)
CHICAGO IL 60611

(City) (State) (Zip)

1. Name and Address of Reporting Person*
[BVF INC/IL](#)

(Last) (First) (Middle)
900 N. MICHIGAN AVENUE, SUITE 1100

(Street)
CHICAGO IL 60611

(City) (State) (Zip)

1. Name and Address of Reporting Person*
[LAMPERT MARK N](#)

(Last) (First) (Middle)
900 N. MICHIGAN AVENUE, SUITE 1100

(Street)
CHICAGO IL 60611

(City) (State) (Zip)

Explanation of Responses:

1. This Form 4 is filed jointly by Biotechnology Value Fund, L.P. ("BVF"), Biotechnology Value Fund II, L.P. ("BVF2"), BVF Investments, L.L.C. ("BVLLC"), BVF Partners L.P. ("Partners"), BVF Inc. and Mark N. Lampert. (collectively, the "Reporting Persons"). Each of the Reporting Persons may be deemed to be a member of a Section 13(d) group that collectively owns more than 10% of the Issuer's outstanding shares of Common Stock. Each of the Reporting Persons disclaims beneficial ownership of the shares of Common Stock reported herein except to the extent of his or its pecuniary interest therein.
2. Units may represent aggregation of daily trade activity. Details regarding individual execution amounts and prices are available upon request.
3. Shares of Common Stock owned directly by BVF. As the general partner of BVF, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF.
4. Shares of Common Stock owned directly by BVF2. As the general partner of BVF2, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF2.
5. Shares of Common Stock owned directly by BVLLC. As the manager of BVLLC, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVLLC. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by BVLLC. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVLLC.
6. Pursuant to the operating agreement of BVLLC, Partners is authorized, among other things, to invest the contributed capital of Samana Capital, L.P., the majority member of BVLLC, in the Shares and other securities and to vote, exercise or convert and dispose of such securities and is entitled to receive fees based on assets under management and, subject to certain exceptions, allocations based on realized and unrealized gains on such assets.

[BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ 10/12/2011 Mark N. Lampert, President](#)
[Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 10/12/2011 its general partner, By: /s/ Mark N. Lampert, President](#)

Biotechnology Value Fund II, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President 10/12/2011
BVF Investments, L.L.C., By: BVF Partners L.P., its manager, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President 10/12/2011
BVF Inc., By: /s/ Mark N. Lampert, President 10/12/2011
/s/ Mark N. Lampert 10/12/2011
** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.