NEUROCRINE BIOSCIENCES INC Form SC 13G/A February 11, 2011

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 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. 6)1

Neurocrine Biosciences, Inc. (Name of Issuer)

Common Stock, par value \$0.001 per share (Title of Class of Securities)

64125C109 (CUSIP Number)

December 31, 2010 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

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 ("Act") 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).

<sup>1</sup> 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.

NAME OF REPORTING PERSON

## CUSIP NO. 64125C109

2 3 4	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY  CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	-	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	793,965 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	ER
9	AGGREGATE	AMOUNT BEN	793,965 EFICIALLY OWNED BY EACH	I REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARI	GATE AMOUNT IN ROW (9) ES	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	1.4% TYPE OF REP	ORTING PERSO	DN	
	PN			
2				

# CUSIP NO. 64125C109

1	NAME OF REI	PORTING PERS	ON	
2	Biotechnology Value Fund II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o			
3	SEC USE ONL	, Y		
4	CITIZENSHIP	OR PLACE OF O	ORGANIZATION	
	Delaware			
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY	•		0 shares	
OWNED BY		6	SHARED VOTING POWER	
EACH				
REPORTING		_	540,500	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
			0 shares	
		8	SHARED DISPOSITIVE POWE	R
			540.500	
9	AGGREGATE	AMOUNT BEN	540,500 EFICIALLY OWNED BY EACH	REPORTING PERSON
	540,500			
10	•	F THE AGGREC	GATE AMOUNT IN ROW (9)	
10		ERTAIN SHARE		
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
	Less than 1%			
12		ORTING PERSO	)N	
	PN			
2				
3				

NAME OF REPORTING PERSON

## CUSIP NO. 64125C109

1	NAME OF REPORTING PERSON			
2	BVF Investments, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A  (a) x			
3	GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	1,911,600 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	1,911,600 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	1,911,600 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	3.5% TYPE OF REP	ORTING PERSC	)N	
	OO			
4				

#### CUSIP NO. 64125C109

1	NAME OF REPORTING PERSON			
2 3	Investment 10, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Illinois	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	253,700 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	253,700 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARI	GATE AMOUNT IN ROW (9) ·	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	Less than 1% TYPE OF REP	ORTING PERSO	ON	
	OO			
5				

NAME OF REPORTING PERSON

## CUSIP NO. 64125C109

2	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	3,499,765 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	3,499,765 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		F THE AGGREC ERTAIN SHARE	GATE AMOUNT IN ROW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	6.4% TYPE OF REP	ORTING PERSC	ON	
	PN, IA			
6				

NAME OF REPORTING PERSON

# CUSIP NO. 64125C109

2 3	GROUP SEC USE ONL	Y	BOX IF A MEMBER OF A	(a) x (b) o
4	CITIZENSHIP	OR PLACE OF (	ORGANIZATION	
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY		6	0 shares SHARED VOTING POWER	
EACH REPORTING PERSON WITH		7	3,499,765 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	CR
9	AGGREGATE	AMOUNT BEN	3,499,765 EFICIALLY OWNED BY EACH	I REPORTING PERSON
10	3,499,765 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	6.4% TYPE OF REP	ORTING PERSO	DN	
	CO			
7				

NAME OF REPORTING PERSON

# CUSIP NO. 64125C109

2 3 4	Mark N. Lampert CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY  CITIZENSHIP OR PLACE OF ORGANIZATION			* /
NUMBER OF SHARES	United States	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	3,499,765 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	.R
9	AGGREGATE	AMOUNT BEN	3,499,765 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARI	JATE AMOUNT IN KOW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	6.4% TYPE OF REP	ORTING PERSO	DN	
	IN			
8				

CUSIP NO. 64125C109

Item 1(a). Name of Issuer:

Neurocrine Biosciences, Inc., a Delaware corporation (the "Issuer").

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

12780 El Camino Real San Diego, CA 92130

Item 2(a). Name of Person Filing

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

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

BVF Investments, L.L.C. ("BVLLC") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Investment 10, L.L.C. ("ILL10") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Illinois

BVF Partners L.P. ("Partners") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

BVF Inc.

900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

CUSIP NO. 64	4125C109		
Item 2(d).		Title of C	lass of Securities:
Common Stoc	k, par value \$0.00	1 per share (the "Common S	Stock")
Item 2(e).		CUS	SIP Number:
64125C109			
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:
		/x/	Not applicable.
(a)	//	Broker or dealer regis	stered under Section 15 of the Exchange Act.
	(b) / /	Bank as defin	ned in Section 3(a)(6) of the Exchange Act.
(c)	//	Insurance company as de	fined in Section 3(a)(19) of the Exchange Act.
(d)	// Inve	stment company registered	under Section 8 of the Investment Company Act.
(e)	//	An investment advise	er in accordance with Rule 13d-1(b)(1)(ii)(E).
(f) /	/ An employe	ee benefit plan or endowmen	nt fund in accordance with Rule 13d-1(b)(1)(ii)(F).
(g)	// A parent h	olding company or control p	person in accordance with Rule 13d-1(b)(1)(ii)(G).
(h)	// A saving	s association as defined in S	Section 3(b) of the Federal Deposit Insurance Act.
• •	h plan that is exclent Company Act.	uded from the definition of	of an investment company under Section 3(c)(14) of the
	(j)	// Group, in	n accordance with Rule 13d-1(b)(1)(ii)(J).
_		n Rule 240.13d-1(b)(1)(ii)( n, please specify the type of	(K). If filing as a non-U.S. institution in accordance with institution:
Item 4.		Ov	vnership
	(a)		Amount beneficially owned:
As of the clos	se of business on D	December 31, 2010, (i) BVF	beneficially owned 793,965 shares of Common Stock, (ii)

BVF2 beneficially owned 540,500 shares of Common Stock, (iii) BVLLC beneficially owned 1,911,600 shares of Common Stock and (iv) ILL10 beneficially owned 253,700 shares of Common Stock.

Partners, as the general partner of BVF and BVF2, the manager of BVLLC and the investment adviser of ILL10, may be deemed to beneficially own the 3,499,765 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, BVLLC and ILL10.

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Item 5.

Item 6.

Not Applicable.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 3,499,765 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 3,499,765 shares of Common Stock beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any shares of Common Stock owned by another Reporting Person. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, BVLLC and ILL10 and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

Based on 54,872,407 shares of Common Stock outstanding as of November 30, 2010, which is based on information contained in the Prospectus filed by the Issuer pursuant to Rule 424(b)(3) with the Securities and Exchange Commission ("SEC") on December 29, 2010. As of the close of business on December 31, 2010, (i) BVF beneficially owned approximately 1.4% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned less than 1% of the outstanding shares of Common Stock, (iii) BVLLC beneficially owned approximately 3.5% of the outstanding shares of Common Stock, (iv) ILL10 beneficially owned less than 1% of the outstanding shares of Common Stock and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 6.4% of the outstanding shares of Common Stock.

(c)	Number of shares as to which such person has:
(i)	Sole power to vote or to direct the vote
	See Cover Pages Items 5-9.
(ii)	Shared power to vote or to direct the vote
	See Cover Pages Items 5-9.
(iii)	Sole power to dispose or to direct the disposition of
	See Cover Pages Items 5-9.
(iv)	Shared power to dispose or to direct the disposition of
	See Cover Pages Items 5-9.
	Ownership of Five Percent or Less of a Class.

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

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 of Common Stock and other securities of the Issuer and to vote, exercise or convert and dispose of each security, 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.

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Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, BVLLC and ILL10.

Item Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the ParentHolding Company or Control Person.

Not Applicable.

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

See Exhibit 99.1 to Amendment No. 4 to the Schedule 13G filed with the SEC on February 10, 2010.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its 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.

#### CUSIP NO. 64125C109

#### **SIGNATURES**

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 11, 2011

BIOTECHNOLOGY VALUE FUND, L.P. INVESTMENT 10, L.L.C.

By: BVF Partners L.P., its general By: BVF Partners L.P., its investment

partner manager

By: BVF Inc., its general partner By: BVF Inc., its general partner

By: /s/ Mark N. Lampert By: /s/ Mark N. Lampert

Mark N. Lampert Mark N. Lampert

President President

BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P.

By: BVF Partners L.P., its general By: BVF Inc., its general partner

partner

By: BVF Inc., its general partner By: /s/ Mark N. Lampert

Mark N. Lampert

By: /s/ Mark N. Lampert President

Mark N. Lampert

President

BVF INC.

BVF INVESTMENTS, L.L.C. By: /s/ Mark N. Lampert

Mark N. Lampert

By: BVF Partners L.P., its manager President

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert /s/ Mark N. Lampert

Mark N. Lampert MARK N. LAMPERT

President