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. 7)¹

Neurocrine Biosciences, Inc.
(Name of Issuer)
Common Stock, par value \$0.001 per share
(Title of Class of Securities)
64125C109
(CUSIP Number)
October 7, 2011
(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*).

¹ 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.

1	NAME OF REPORTING PERSON						
		Biotechnology Value Fund, L.P.					
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x				
			(b) o				
3	SEC USE ONLY						
4	CITIZENSHIP OR P	LACE OF ORGANIZATION					
	Delaware						
NUMBER OF	5	SOLE VOTING POWER					
SHARES							
BENEFICIALLY		0 shares					
OWNED BY EACH	6	SHARED VOTING POWER					
REPORTING							
PERSON WITH		1,230,465					
	7 SOLE DISPOSITIVE POWER						
	0 shares						
	8	SHARED DISPOSITIVE POWER					
		1,230,465					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
	1,230,465						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	2.20/						
	2.2%						
12	TYPE OF REPORTIN	NG PERSON					
	DM						
	PN						

1	NAME OF REPORTING PERSON					
		Biotechnology Value Fund II, L.P.				
2		DPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o			
3	SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON WITH	756,600					
	0 shares					
	8	SHARED DISPOSITIVE POWER				
		756,600				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	756,600					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.4%					
12	TYPE OF REPORTIN	NG PERSON				
	PN					

1	NAME OF REPORTING PERSON					
		BVF Investments, L.L.C.				
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x			
			(b) o			
3	SEC USE ONLY					
4	CITIZENSUID OD DI	LACE OF ORGANIZATION				
4	CITIZENSHIP OR P	LACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON WITH		2 505 400				
PERSON WITH	7	3,505,400 SOLE DISPOSITIVE POWER				
	SOLE DISPOSITIVE POWER					
	0 shares					
	8 SHARED DISPOSITIVE POWER					
		3,505,400				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	2 505 400					
10	3,505,400					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	I LICENT OF CLAS	o REFERENCE DT THROUTT IN NOW (0)				
	6.4%					
12	TYPE OF REPORTIN	NG PERSON				
	00					

1	NAME OF REPORTING PERSON				
	Investment 10, L.L.C.				
2		PRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o		
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION			
	Illinois				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING PERSON WITH		403.500			
	7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER				
		403,500			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	403,500				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	Less than 1%				
12	TYPE OF REPORTIN	IG PERSON			
	00				

1	NAME OF REPORTING PERSON				
	BVF Partners L.P.				
2	CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o		
3	SEC USE ONLY				
4	CITIZENSHIP OR PI	ACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING PERSON WITH		5,895,965			
	7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER				
		5,895,965			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	5,895,965				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	10.70/				
12	10.7% TYPE OF REPORTING PERSON				
	DV 14				
	PN, IA				

Ir-						
1	NAME OF REPORTING PERSON					
	BVF Inc.					
2	CHECK THE APPR	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) x			
			(b) o			
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING						
PERSON WITH		5,895,965				
	7	SOLE DISPOSITIVE POWER				
	0 shares					
	8	SHARED DISPOSITIVE POWER				
		5,895,965				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	5,895,965					
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	10.7%					
12	TYPE OF REPORT	ING PERSON				
	CO					

1	NAME OF REPORTING PERSON				
	Mark N. Lampert				
2		PRIATE BOX IF A MEMBER OF A GROUP	(a) x		
3	SEC USE ONLY		(b) o		
	SEC OSE OIVET				
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION			
	United States				
NUMBER OF	5	SOLE VOTING POWER			
SHARES BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING PERSON WITH		5.895,965			
	7	SOLE DISPOSITIVE POWER			
	0 shares 8 SHARED DISPOSITIVE POWER				
		5,895,965			
9	AGGREGATE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
10	5,895,965				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	10.7%				
12		TYPE OF REPORTING PERSON			
	INI				
	IN				

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."

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

Common Stock, par value \$0.001 per share (the "Common Stock")

Item 2(e). CUSIP 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 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) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
- (k) // Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on October 11, 2011, (i) BVF beneficially owned 1,230,465 shares of Common Stock, (ii) BVF2 beneficially owned 756,600 shares of Common Stock, (iii) BVLLC beneficially owned 3,505,400 shares of Common Stock and (iv) ILL10 beneficially owned 403,500 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 5,895,965 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, BVLLC and ILL10.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,895,965 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 5,895,965 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:

The following percentages are based on 55,239,196 shares of Common Stock outstanding as of July 22, 2011, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on July 29, 2011.

As of the close of business on October 11, 2011, (i) BVF beneficially owned approximately 2.2% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.4% of the outstanding shares of Common Stock, (iii) BVLLC beneficially owned approximately 6.4% 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 10.7% 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.

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.

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.

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 7. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding 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 Securities and Exchange Commission 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.

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: October 12, 2011

BIOTECHNOLOGY VALUE FUND, L.P.		INVESTMENT 10, L.L.C.		
By:	BVF Partners L.P., its general partner	By:	BVF Partners L.P., its investment manager	
By:	BVF Inc., its general partner	By:	BVF Inc., its general partner	
Ву:	/s/ Mark N. Lampert Mark N. Lampert President	Ву:	/s/ Mark N. Lampert Mark N. Lampert President	
BIOTEC	CHNOLOGY VALUE FUND II, L.P.	BVF PA	RTNERS L.P.	
By:	BVF Partners L.P., its general partner	By:	BVF Inc., its general partner	
By:	BVF Inc., its general partner	By:	/s/ Mark N. Lampert Mark N. Lampert	
By:	/s/ Mark N. Lampert Mark N. Lampert President		President	
		BVF IN	C.	
BVF IN	VESTMENTS, L.L.C.	By:	/s/ Mark N. Lampert	
By:	BVF Partners L.P., its manager		Mark N. Lampert President	
By:	BVF Inc., its general partner			
By:	/s/ Mark N. Lampert Mark N. Lampert President		/s/ Mark N. Lampert MARK N. LAMPERT	