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. 1)¹

Acadia Pharmaceuticals Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

004225108

(CUSIP Number)

December 31, 2009

(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 DEDODET			
1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPRC	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		71,476 (1)		
	7 SOLE DISPOSITIVE POWER			
	0 shares			
	8	SHARED DISPOSITIVE POWER		
	71,476 (1)			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	71,476 (1)			
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		
	PN			
1				

(1) Includes 71,476 shares of Common Stock purchasable upon the exercise of certain warrants.

NAME OF DEDODT	NO DEDGON		
NAME OF REPORTING PERSON			
CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x	
		(b) o	
SEC USE ONLY			
CITIZENSHIP OR PL	ACE OF ORGANIZATION		
Delaware			
5	SOLE VOTING POWER		
	0 shares		
6	SHARED VOTING POWER		
45,250 (1)			
7 SOLE DISPOSITIVE POWER			
0 shares			
8 SHARED DISPOSITIVE POWER			
45,250 (1)			
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
45,250 (1)			
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
Less than 1%			
TYPE OF REPORTIN	IG PERSON		
PN			
	Biotechnology Valu CHECK THE APPRO SEC USE ONLY CITIZENSHIP OR PL Delaware 5 6 6 7 8 AGGREGATE AMOU 45,250 (1) CHECK BOX IF THE PERCENT OF CLASS Less than 1% TYPE OF REPORTIN	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5 SOLE VOTING POWER 0 shares 6 SHARED VOTING POWER 45,250 (1) 7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER 45,250 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 45,250 (1) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) Less than 1% TYPE OF REPORTING PERSON	

(1) Includes 45,250 shares of Common Stock purchasable upon the exercise of certain warrants.

1	NAME OF REPORTING PERSON			
	BVF Investments, L.L.C.			
2	CHECK THE APPRC	PRIATE 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		109,500 (1)		
	7	SOLE DISPOSITIVE POWER		
	0 shares			
	8 SHARED DISPOSITIVE POWER			
		109,500 (1)		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	109,500 (1)			
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) Includes 109,500 shares of Common Stock purchasable upon the exercise of certain warrants.

	1			
1	NAME OF REPORTING PERSON			
	Investment 10, L.L.C.			
2	CHECK THE APPRO	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	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH	12,000 (1)			
	7 SOLE DISPOSITIVE POWER			
	0 shares			
	8 SHARED DISPOSITIVE POWER			
	12,000 (1)			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	12,000 (1)			
10	12,000 (1)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	Long them 10/			
12	Less than 1% TYPE OF REPORTING PERSON			
12	I I I PE OF KEPORIIN	IG FERJUN		
	00			

(1) Includes 12,000 shares of Common Stock purchasable upon the exercise of certain warrants.

NAME OF REPORTING PERSON			
CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x	
		(b) o	
SEC USE ONLY			
CITIZENSHIP OR PL	ACE OF ORGANIZATION		
	T		
5	SOLE VOTING POWER		
6	SHARED VOTING POWER		
	DD0 DDC (4)		
7	SOLE DISPOSITIVE POWER		
8	8 SHARED DISPOSITIVE POWER		
	220 226 (1)		
AGGREGALE AMOU	UNI BENEFICIALLI OWNED DI EACH REPORTING PERSON		
238 226 (1)			
		Π	
\Box			
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
rencent of class refresented by Amount in Row (9)			
Less than 1%			
	IG PERSON		
PN, IA			
	BVF Partners L.P. CHECK THE APPRC SEC USE ONLY CITIZENSHIP OR PL Delaware 5 6 7 8 AGGREGATE AMOU 238,226 (1) CHECK BOX IF THE PERCENT OF CLAS Less than 1%	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5 SOLE VOTING POWER 0 shares 6 SHARED VOTING POWER 238,226 (1) 7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER 238,226 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 238,226 (1) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) Less than 1% TYPE OF REPORTING PERSON	

(1) Includes 238,226 shares of Common Stock purchasable upon the exercise of certain warrants.

1	1			
1	NAME OF REPORTING PERSON			
	BVF Inc.			
2	CHECK THE APPRC	PRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH	238,226 (1)			
	7 SOLE DISPOSITIVE POWER			
	0 shares			
	8	SHARED DISPOSITIVE POWER		
		238,226 (1)		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	238,226 (1)			
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		
	СО			

(1) Includes 238,226 shares of Common Stock purchasable upon the exercise of certain warrants.

1				
1	NAME OF REPORTING PERSON			
	Mark N. Lampert			
2	CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
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	238,226 (1)			
	7	7 SOLE DISPOSITIVE POWER		
	0 shares			
	8	8 SHARED DISPOSITIVE POWER		
	220,226 (4)			
	238,226 (1)			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	220 226 (1)			
10	238,226 (1)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	Less than 19/			
12	Less than 1% TYPE OF REPORTING PERSON			
12	I I I I I I I I I I I I I I I I I I I	G FERSON		
	IN			
	11.4			

(1) Includes 238,226 shares of Common Stock purchasable upon the exercise of certain warrants.

CUSIP NO. 004225108

Item 1(a).	Name of Issuer:		
	Acadia Pharmaceuticals Inc., a Delaware corporation (the "Issuer").		
Item 1(b).	Address of Issuer's Principal Executive Offices:		
	3911 Sorrento Valley Boulevard San Diego, CA 92121		
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship		
900 Nort Chicago,	ology Value Fund, L.P. ("BVF") h Michigan Avenue, Suite 1100 Illinois 60611 ip: Delaware		
900 Nort Chicago,	ology Value Fund II, L.P. ("BVF2") h Michigan Avenue, Suite 1100 Illinois 60611 ip: Delaware		
900 Nort Chicago,	estments, L.L.C. ("BVLLC") h Michigan Avenue, Suite 1100 Illinois 60611 ip: 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			
Chicago,	h Michigan Avenue, Suite 1100 Illinois 60611 ip: 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. 004225108

Item 2(d).	Title of Class of Securities:			
	Common Stoc	k, par value \$0.0001 per share (the "Common Stock")		
Item 2(e).	CUSIP Number:			
	004225108			
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 aj	ot 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 December 31, 2009, (i) BVF beneficially owned 71,476 shares of Common Stock, including 71,476 shares of Common Stock purchasable upon the exercise of Warrants held by it, (ii) BVF2 beneficially owned 45,250 shares of Common Stock, including 45,250 shares of Common Stock purchasable upon the exercise of Warrants held by it, (iii) BVLLC beneficially owned 109,500 shares of Common Stock, including 109,500 shares of Common Stock purchasable upon the exercise of Warrants held by it and (iv) ILL10 beneficially owned 12,000 shares of Common Stock, including 12,000 shares of Common Stock purchasable upon the exercise of Warrants held by it.

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 238,226 shares of Common Stock, including 238,226 shares of Common Stock purchasable upon the exercise of certain Warrants, 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 238,226 shares of Common Stock, including 238,226 shares of Common Stock purchasable upon the exercise of certain Warrants, beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 238,226 shares of Common Stock, including 238,226 shares of Common Stock purchasable upon the exercise of certain Warrants, 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 38,266,843 shares of Common Stock outstanding as of October 30, 2009, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2009. As of the close of business on December 31, 2009, (i) BVF beneficially owned less than 1% 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 less than 1% 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 less than 1% 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.

CUSIP NO. 004225108

(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.
	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 [X].
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.
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 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 n connection with or as a participant in any transaction having that purpose or effect.

<u>SIGNATURE</u>

stateme	After reasonable inquiry and to the best of his knowent is true, complete and correct.	wledge and belief, e	each of the undersigned certifies that the information set forth in this
Dated:	February 2, 2010		
BIOTE	CCHNOLOGY VALUE FUND, L.P.	INVES	TMENT 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
By:	/s/ Mark N. Lampert	By:	/s/ Mark N. Lampert
	Mark N. Lampert President		Mark N. Lampert President
BIOTE	CHNOLOGY VALUE FUND II, L.P.	BVF PA	ARTNERS 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
By:	/s/ Mark N. Lampert Mark N. Lampert		Mark N. Lampert President
	President		
BVF II	NVESTMENTS, L.L.C.	BVF IN	NC.
By:	BVF Partners L.P., its manager	By:	/s/ Mark N. Lampert
By:	BVF Inc., its general partner		Mark N. Lampert President
By:	/s/ Mark N. Lampert		
	Mark N. Lampert		k N. Lampert
	President	MARK	N. LAMPERT
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JOINT FILING AGREEMENT

The undersigned hereby agree that the Statement on Schedule 13G dated February 2, 2010 with respect to the shares of Common Stock of Acadia Pharmaceuticals Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: February 2, 2010

BIOTECHNOLOGY VALUE FUND, L.P.

- By: BVF Partners L.P., its general partner
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert 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 Mark N. Lampert President

BVF INVESTMENTS, L.L.C.

- By: BVF Partners L.P., its manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

INVESTMENT 10, L.L.C.

- By: BVF Partners L.P., its investment manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert President

BVF INC.

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

President

/s/ Mark N. Lampert

MARK N. LAMPERT