UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G
UNDER THE SECURITIES EXCHANGE ACT OF 1934
(AMENDMENT NO. 2)*
Acadia Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock, \$.0001 Par Value Per Share
(Title of Class of Securities)
004225108
(CUSIP Number)
December 31, 2006
(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) [X] Rule 13d-1(d)
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 ("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).
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CUSIP NO. 004225108 13G
I. NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)
OXFORD BIOSCIENCE PARTNERS IV L.P.
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(b) [_]
3. SEC USE ONLY

Botanaro			
NUMBER OF	5.	SOLE VOTING POWER	
SHARES		0	
BENEFICIALLY	6.	SHARED VOTING POWER	
OWNED BY		3,422,717	
EACH	7.	SOLE DISPOSITIVE POWER	
REPORTING		0	
PERSON	8.	SHARED DISPOSITIVE POWER	
WITH:		3,422,717	
9. AGGREGATE	E AMOL	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
3,422,717	7		
10. CHECK BOX	(IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
			[_]
11. PERCENT C	OF CLA	ASS REPRESENTED BY AMOUNT IN ROW 9	
11.4%			
12. TYPE OF F	REPORT	TING PERSON*	
PN			
		Page 2 of 17	

Delaware

Page 2 of 17

1. NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF A	BOVE PERSONS (ENTITIES ONLY)
mRNA FUND II L.P.	
2. CHECK THE APPROPRIATE BOX IF A	MEMBER OF A GROUP* (a) [_] (b) [_]
3. SEC USE ONLY	
4. CITIZENSHIP OR PLACE OF ORGANIZA	ATION
Delaware	
NUMBER OF 5. SOLE VOTING POWER	?
SHARES 0	
BENEFICIALLY 6. SHARED VOTING PO	VER
OWNED BY 3,422,717	
EACH 7. SOLE DISPOSITIVE	POWER
REPORTING 0	
PERSON 8. SHARED DISPOSITI	/E POWER
WITH: 3,422,717	
9. AGGREGATE AMOUNT BENEFICIALLY O	NNED BY EACH REPORTING PERSON
3,422,717	
10. CHECK BOX IF THE AGGREGATE AMOU	NT IN ROW (9) EXCLUDES CERTAIN SHARES*
	[_]
11. PERCENT OF CLASS REPRESENTED BY	AMOUNT IN ROW 9
11.4%	
12. TYPE OF REPORTING PERSON*	
PN	

1.			RTING PERSONS							
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) OBP MANAGEMENT IV L.P.									
	OBP MANAG	iEMEN1	IV L.P.							
2.	CHECK THE	APPF	ROPRIATE BOX IF A MEMBER OF A GROUP*							
				(a) (b)	[_] []					
				` ,						
3.	SEC USE 0	NLY								
4.	CTTTZENSH	ITP OF	R PLACE OF ORGANIZATION							
•	01.111									
	Delaware									
NL	JMBER OF	5.	SOLE VOTING POWER							
S	SHARES		0							
BENE	FICIALLY	6.	SHARED VOTING POWER							
OW	NED BY		3,422,717							
	EACH	7.	SOLE DISPOSITIVE POWER							
RE	PORTING		0							
F	PERSON	8.	SHARED DISPOSITIVE POWER							
	WITH:		3,422,717							
9.	AGGREGATE	AMOL	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	1						
	3,422,717	•								
10.	CHECK BOX	, TC 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAI		ADEC*					
10.	CHECK BUX	, IF	THE AGGREGATE AMOUNT IN NOW (9) EXCLUDES CERTAIN	.N SH						
					[_]					
11.	PERCENT 0	F CLA	ASS REPRESENTED BY AMOUNT IN ROW 9							
	11.4%									
12.	TYPE OF R	EPOR1	ING PERSON*							
	PN									

1.			RTING PERSONS FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	JEFFREY T	. BAI	RNES	
2.	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP*	a) [_]
				b) [_]
3.	SEC USE 0	NLY		
4.	CITIZENSH	IP OF	R PLACE OF ORGANIZATION	
	United St	ates		
NL	JMBER OF	5.	SOLE VOTING POWER	
5	SHARES		0	
BENE	FICIALLY	6.	SHARED VOTING POWER	
OW	NED BY		3,422,717	
	EACH	7.	SOLE DISPOSITIVE POWER	
RE	PORTING		0	
F	PERSON	8.	SHARED DISPOSITIVE POWER	
	WITH:		3,422,717	
9.	AGGREGATE	AMOL	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,422,717			
10.	CHECK BOX	IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN	SHARES*
				[_]
	DEDOEMT O	O	AGO DEDDECENTED DV AMOUNT IN DOLLO	
11.		IF CLA	ASS REPRESENTED BY AMOUNT IN ROW 9	
	11.4%			
12.	TYPE OF R	EPOR	TING PERSON*	
	IN			

1.			RTING PERSONS FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	MARK P. C	CARTH		
2.	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP*	
			(a (b	1) [_] 0) [_]
3.	SEC USE C	DNLY		
4.	CITIZENSH	IIP OF	R PLACE OF ORGANIZATION	
	United St	ates		
NU	IMBER OF	5.	SOLE VOTING POWER	
S	HARES		Θ	
BENE	FICIALLY	6.	SHARED VOTING POWER	
OW	NED BY		3,422,717	
	EACH	7.	SOLE DISPOSITIVE POWER	
RE	PORTING		Θ	
P	ERSON	8.	SHARED DISPOSITIVE POWER	
	WITH:		3,422,717	
9.	AGGREGATE	AMOL	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,422,717	,		
10.	CHECK BOX	(IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN	SHARES*
				[_]
11.	PERCENT C	F CLA	ASS REPRESENTED BY AMOUNT IN ROW 9	
	11.4%			
12.	TYPE OF F	REPORT	FING PERSON*	
	IN			

			TING PERSONS ICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
J	ONATHAN	J. FL	EMING	
2. C	HECK THE	APPR	OPRIATE BOX IF A MEMBER OF A GROUP*	
				a) [_] b) [_]
3. S	EC USE 0	NLY		
4. C	ITIZENSH	IP OR	PLACE OF ORGANIZATION	
U	nited St	ates		
NUMB	ER OF	5.	SOLE VOTING POWER	
SHA	RES		0	
BENEFI	CIALLY	6.	SHARED VOTING POWER	
OWNE	D BY		3,422,717	
EA	.CH	7.	SOLE DISPOSITIVE POWER	
REP0	RTING		0	
PER	SON	8.	SHARED DISPOSITIVE POWER	
WI	TH:		3,422,717	
9. A	GGREGATE	AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
3	,422,717			
10. C	HECK BOX	IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN	I SHARES*
				[_]
11. P	ERCENT O	F CLA	SS REPRESENTED BY AMOUNT IN ROW 9	
1	1.4%			
12. T	YPE OF R	EPORT	ING PERSON*	
I	N			

1.			RTING PERSONS FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	MICHAEL E	. LY	TON		
2.	CHECK THE	APPF		(a) (b)	[_] [_]
3.	SEC USE 0	NLY			
4.	CITIZENSH	IP OF	R PLACE OF ORGANIZATION		
	United St	ates			
NU	IMBER OF	5.	SOLE VOTING POWER		
9	SHARES		0		
BENE	FICIALLY	6.	SHARED VOTING POWER		
OV	NED BY		3,422,717		
	EACH	7.	SOLE DISPOSITIVE POWER		
RE	PORTING		0		
F	PERSON	8.	SHARED DISPOSITIVE POWER		
	WITH:		3,422,717		
9.	AGGREGATE	AMOL	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	3,422,717				
10.	CHECK BOX	IF 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAI	N SH	ARES*
					[_]
11.	PERCENT 0	F CLA	ASS REPRESENTED BY AMOUNT IN ROW 9		
	11.4%				
12.	TYPE OF R	EPOR	ING PERSON*		
	IN				

1.			TING PERSONS FICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)	
	ALAN G. W	<i>I</i> ALTON	I	
2.	CHECK THE	APP	ROPRIATE BOX IF A MEMBER OF A GROUP*	
			(a) (b)	
3.	SEC USE 0	NLY		
4.	CITIZENSH	IIP OF	R PLACE OF ORGANIZATION	
	United St	ates		
NU	IMBER OF	5.	SOLE VOTING POWER	
S	SHARES		37,403	
BENE	FICIALLY	6.	SHARED VOTING POWER	
OW	NED BY		3,422,717	
	EACH	7.	SOLE DISPOSITIVE POWER	
RE	PORTING		37,403	
P	PERSON	8.	SHARED DISPOSITIVE POWER	
	WITH:		3,422,717	
9.	AGGREGATE	AMOL	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,460,120)		
10.	CHECK BOX	(IF	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN S	SHARES*
				[_]
11.	PERCENT 0	F CLA	ASS REPRESENTED BY AMOUNT IN ROW 9	
	11.6%			
12.	TYPE OF R	REPORT	ING PERSON*	
	IN			

- ITEM 1(a). NAME OF ISSUER: Acadia Pharmaceuticals, Inc. (the "Issuer")
- ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:
 3911 Sorrento Valley Boulevard, San Diego, California, 92121
- ITEM 2(a).

 NAMES OF PERSONS FILING: Oxford Bioscience Partners IV L.P.

 ("Oxford IV") and mRNA Fund II L.P. ("mRNA II") (collectively, the

 "Funds"); OBP Management IV L.P. ("OBP IV"), which is the sole

 general partner of Oxford IV and mRNA II; and Jeffrey T. Barnes

 ("Barnes"), Mark P. Carthy ("Carthy"), Jonathan J. Fleming

 ("Fleming"), Michael E. Lytton ("Lytton") and Alan G. Walton

 ("Walton") (collectively, the "General Partners"), who are the

 general partners of OBP IV. The persons named in this paragraph

 are referred to individually herein as a "Reporting Person" and

 collectively as the "Reporting Persons."
- ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:
 The address of the principal business office of Oxford IV, mRNA
 II, OBP IV, Barnes, Carthy, Fleming and Lytton is 222 Berkeley
 Street, Suite 1650, Boston, Massachusetts 02116. The address of
 the principal business office of Walton is 315 Post Rd. West,
 Westport, Connecticut 06880.
- ITEM 2(c). CITIZENSHIP: The Funds and OBP IV are limited partnerships organized under the laws of the State of Delaware. Each of the Individual General Partners is a United States citizen.
- ITEM 2(e). CUSIP NUMBER: 004225108.
- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO SS.SS. 240.13d-1(b) OR 240.13d-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:

Not applicable.

ITEM 4. OWNERSHIP.

- Amount Beneficially Owned: Oxford IV is the record owner of (a) 3,160,238 shares of Common Stock and immediately exercisable warrants to purchase 236,500 shares of Common Stock at an exercise price of \$8.148 per share as of December 31, 2006. mRNA II is the record owner of 25,979 shares of Common Stock as of December 31, 2006 (the shares and warrants held of record by Oxford IV and mRNA II, the "Record Shares"). As the sole general partner of Oxford IV and mRNA II, OBP IV may be deemed to own the Records Shares. As the individual general partners of OBP IV, each of the General Partners may also be deemed to share the power and direct the disposition and vote of the Record Shares. In addition, as of December 31, 2006, Walton holds the right to options to exercise 45,721 shares of Common Stock of which 29,084 are immediately exercisable and 8,319 are exercisable within 60 days (the "Option Shares"). The remaining 8,318 are not exercisable within 60 days.
- (b) Percent of Class: See Line 11 of the cover sheets. The percentages set forth on the cover sheets for each Reporting Person other than Walton are calculated based on 29,798,615 shares of Common Stock reported to be outstanding by the Issuer in Form 10-Q as filed with the Securities and Exchange Commission on November 6, 2006 for the period ending September 30, 2006 (the "Reported Shares"). Walton's percentage

is calculated based on 29,836,018 shares, which includes the Reported Shares and the Option Shares.

- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: See Line 5 of cover sheets.
 - (ii) Shared power to vote or to direct the vote: See Line 6 of cover sheets.
 - (iii) Sole power to dispose or to direct the disposition of: See Line 7 of cover sheets.
 - (iv) Shared power to dispose or to direct the disposition
 of: See Line 8 of cover sheets.

Each Reporting Person disclaims beneficial ownership of such shares of Common Stock, except for the shares, if any, such Reporting Person holds of record.

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.

Not applicable.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY.

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP.

Not applicable. The Reporting Persons expressly disclaim membership in a "group" as used in Rule 13d-5(b).

ITEM 9. NOTICE OF DISSOLUTION OF GROUP.

Not applicable.

ITEM 10. CERTIFICATION.

Not applicable. This statement on Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

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SIGNATURE

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

Date:	Febru	uary 14,	2007	
OXFORD B	IOSCIE	ENCE PAR	RTNERS I	V L.P.
Ву:		MANAGEME al Part	ENT IV L ner	.P.
	Ву:			*
		Jonathar	J. Fle Partner	ming
mRNA FUNI) II L	P.		
Ву:		MANAGEME al Part	ENT IV L ner	.P.
	Ву:			*
		onathar	J. Fle Partner	ming
OBP MANA	GEMENT	「IV L.F	٠.	
Ву:			*	
Jor	nathar	J. Fle	eming	
		*		
Jeffery				
		*		
 Mark P. (Carthy			
		*		
Jonathan				
		*		

Michael E. Lytton

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					7	t								
					 		-	 	 	 	 _	 	 -	_
Alan (G.	Wal	to	n										

This Schedule 13G was executed by Raymond Charest on behalf of the individuals listed above pursuant to Powers of Attorney, copies of which are attached as EXHIBIT 2.

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EXHIBIT 1

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of stock of Acadia Pharmaceuticals, Inc.

EXECUTED this 14 day of February, 2007.

OXFORD BI	OSCIENC	E PARTNERS	IV L.P.	
Ву:		AGEMENT IV Partner	L.P.	
	Ву:		*	
		athan J. Fi eral Partno		
mRNA FUND	II L.P			
By:		AGEMENT IV Partner	L.P.	
	Ву:		*	
		athan J. Fi eral Partno	leming	
OBP MANAG	SEMENT I	V L.P.		
Ву:		*		
		. Fleming		
		*		
Jeffery T	. Barne	S		
		*		
Mark P. C	arthy			
		*		

Jonathan J. Fleming

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*
Michael E. Lytton
*
Alan G. Walton

This Schedule 13G was executed by Raymond Charest on behalf of the individuals listed above pursuant to Powers of Attorney, copies of which are attached as EXHIBIT 2.

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Raymond Charest, Alexia Pearsall and Jonathan J. Fleming, and each of them, with full power to act without the other, his true and lawful attorney-in-fact and agent, with full power of substitution, for him and in his name, place and stead, in any and all capacities (until revoked in writing) to sign any and all instruments, certificates and documents required to be executed on behalf of himself as an individual or in his capacity as a general partner or authorized signatory, as the case may be, on behalf of any of Oxford Bioscience Partners IV L.P., mRNA II L.P., or OBP Management IV L.P., pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the By-laws of the National Association of Securities Dealers, Inc., granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary fully to all intents and purposes as he might or could do in person thereby ratifying and confirming all that said attorney-in-fact and agent, or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof, or may have done in connection with the matters described above.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 8th day of April, 2004.

OXFORD BIOSCIENCE PARTNERS IV L.P. BY ITS GENERAL PARTNER, OBP MANAGEMENT IV L.P.

By: /s/ JONATHAN FLEMING

Name: Jonathan J. Fleming Title: General Partner

mRNA FUND II L.P.

BY ITS GENERAL PARTNER, OBP MANAGEMENT IV L.P.

By: /s/ JONATHAN FLEMING

Name: Jonathan J. Fleming Title: General Partner

OBP MANAGEMENT IV L.P.

By: /s/ JONATHAN FLEMING

Name: Jonathan J. Fleming Title: General Partner

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/s/ JEFFREY T. BARNES
Jeffrey T. Barnes
/s/ MARK P. CARTHY
Mark P. Carthy
/s/ JONATHAN J. FLEMING
Jonathan J. Fleming
/s/ MICHAEL E. LYTTON
Michael E. Lytton
/s/ ALAN G. WALTON
Alan G. Walton

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