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

Syndax Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value
(Title of Class of Securities)
(The of Chass of Securities)
87164F105
(CUSIP Number)
November 15, 2017
(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) □ 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 disclosures provided in a prior cover page.

The information required on 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	NAME OF REPOR	RTING PERSON	
	Biotechnolo	gy Value Fund, L.P.	
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		4.055.450	
REPORTING		1,255,452	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE POWER	
		1,255,452	
9	AGGREGATE AM	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	11301110111111111	10011 BELLETONIBE OTTIBE BY BIOTIBE ON INCIDENCE!	
	1,255,452		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		()	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.1%		
12	TYPE OF REPOR	TING PERSON	
	PN		

1	NAME OF REPOR	RTING PERSON	
	Biotechnolog	gy Value Fund II, L.P.	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
			(-)
3	SEC USE ONLY		
	020 002 01.21		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
7	CITIZENOIIII OI	TEMOL OF OROMINEMION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	3	SOLE VOTING TOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	-
EACH	U	SHARED VOTING POWER	
REPORTING		000 700	
PERSON WITH	7	800,788 SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		200 700	
		800,788	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	800,788		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	3.3%		
12	TYPE OF REPORT	TING PERSON	
	PN		

1	NAME OF REPOR	RTING PERSON	
	Biotechnolo	gy Value Trading Fund OS LP	
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
	CECTICE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR	R PLACE OF ORGANIZATION	
·	CITIZEI (OIIII OI	TETOL OF CROPINIZATION	
	Cayman Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		212.000	
PERSON WITH	7	213,980 SOLE DISPOSITIVE POWER	
FERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		213,980	
9	AGGREGATE AM	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	242.000		
10	213,980	FILE A CODEC ATE AMOUNT IN DOW (I) EVOLUDES CEDITAIN SHADES	
10	CHECK BOX IF I	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 19	%	
12	TYPE OF REPOR	TING PERSON	
	PN		

	NAME OF BEDODE	TING DEDGON	
1	NAME OF REPORTING PERSON		
	DIVE D	00.1.1	
	BVF Partners		() [7]
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
	CECTICE ONLY		
3	SEC USE ONLY		
4	CITIZENSUID OD D	PLACE OF ORGANIZATION	
4	CITIZENSIIIF OK F	LACE OF ORGANIZATION	
	Cayman Island	ds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		213,980	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		212,000	
9	ACCDECATE AMO	213,980 DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGALE AMC	JUNI BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	213,980		
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
		E 11001E 11.100111 II	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
		• •	
	Less than 1%		
12	TYPE OF REPORTI	NG PERSON	
	CO		

1	NAME OF REPOR	RTING PERSON	
	BVF Partner	s L.P.	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
			` ,
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
-			
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY			
OWNED BY	6	SHARED VOTING POWER	
EACH	-		
REPORTING		2,547,318	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,547,318	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,547,318		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		· /	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	10.4%		
12	TYPE OF REPORT	TING PERSON	
	PN, IA		

1	NAME OF REPOR	RTING PERSON	
	BVF Inc.		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		0.545.040	
REPORTING		2,547,318	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	O	SHARED DISPOSITIVE POWER	
		2,547,318	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1130KEGIIIE IIIV	CONT DENERICEMENT OWNED DI ENGINEE ONTING LERGON	
	2,547,318		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		(-)	
11	PERCENT OF CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	10.4%		
12	TYPE OF REPORT	TING PERSON	
	CO		

1	NAME OF DEDOD	TINC DEDSON	1
1	NAME OF REPORTING PERSON		
	Mark N. Lam	pert	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
•		LEIGE OF ORGANIZATION	
	United States		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
REPORTING		2,547,318	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,547,318	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,547,318		
10	CHECK BOX IF TI	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	10.4%		
12	TYPE OF REPORT	ING PERSON	
	IN		
	11N		

Item 1(a). Name of Issuer:

Syndax Pharmaceuticals, Inc., a Delaware corporation (the "Issuer").

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

35 Gatehouse Drive, Building D, Floor 3

Waltham, Massachusetts 02451

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")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands

Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands

Citizenship: Cayman Islands

BVF Partners L.P. ("Partners") 1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

BVF Inc.

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30th Floor San Francisco, California 94104

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	Title of Class of Securities:			
	Common Sto	Common Stock, \$0.0001 par value (the "Common Stock")			
Item 2(e).	CUSIP Numb	CUSIP Number:			
	87164F105				
Item 3.	If This Stater	nent 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 Ac			
(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) please specify the type of institution:			
Item 4.	Ownership				
(a)	Amount bene	Amount beneficially owned:			
	A C.1 1	(1 ' N 1.47.2047 (') DVID (' ' 1.4.255 452 1.6.2			

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As of the close of business on November 17, 2017 (i) BVF beneficially owned 1,255,452 shares of Common Stock, (ii) BVF2 beneficially owned 800,788 shares of Common Stock, and (iii) Trading Fund OS beneficially owned 213,980 shares of Common Stock.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 213,980 shares of Common Stock beneficially owned by Trading Fund OS.

Partners, as the general partner of BVF, BVF2, the investment manager of Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 2,547,318 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners managed accounts (the "Partners Managed Accounts"), including 277,098 shares of Common Stock held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,547,318 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 2,547,318 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. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts, 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 24,389,929 shares of Common Stock outstanding, as of November 6, 2017, which is the total number of shares of Common Stock outstanding as reported in the Issuer's Quarterly Report filed on Form 10-Q with the Securities and Exchange Commission on November 8, 2017.

As of the close of business on November 17, 2017 (i) BVF beneficially owned approximately 5.1% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 3.3% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding shares of Common Stock (iv) Partners OS may be deemed to beneficially own 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 10.4% of the outstanding shares of Common Stock (approximately 1.1% of which is held in the Partners Managed Accounts).

- (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.

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts.

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 the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on November 14, 2017.

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.

SIGNATURE

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: November 17, 2017

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

BVF INC.

/s/ Mark N. Lampert

By: Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

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 PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President