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

ERYTECH Pharma S.A. (Name of Issuer)

Ordinary Shares, nominal value €0.10 per share

(Title of Class of Securities)

29604W108 (CUSIP Number)

December 20, 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)

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 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 REPORTING PERSON			
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) 🗆	
3	SEC USE ONLY			
5	SEC USE ONLI			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER		
EACH	0	SHARED VOTING POWER		
REPORTING		$436,257^1$		
PERSON WITH	7	SOLE DISPOSITIVE POWER	······	
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		436,257 ¹		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	·····			
10	436,257 ¹			
10	CHECK BOX IF I	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	$2.4\%^{1}$			
12	TYPE OF REPORT	TING PERSON		
	PN			

¹Includes 310,194 American Depositary Shares ("ADSs"), each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund II, L.P.			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHIP OR P	LACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		1		
REPORTING		289,906 ¹		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	0			
		$289,906^1$		
9	AGGREGATE AMC	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	$289,906^1$			
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
			-	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)		
	1.00/1			
10	1.6% ¹	NC DEDCON		
12	TYPE OF REPORTI	ING PERSOIN		
	PN			
L	111			

 $^1 \mathrm{Includes}$ 198,372 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON			
	Biotechnology Value Trading Fund OS LP			
2	CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHID OP DI	ACE OF ORGANIZATION		
4	CITIZENSIIIF OK FL	ACE OF ORGANIZATION		
	Cayman Islands	5		
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		74,806 ¹		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWER		
	8	SHARED DISPOSITIVE POWER		
		$74,806^{1}$		
9	ACCRECATE AMOI	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
5	AGGREGATE AMOU	INT BENEFICIALET OWNED DT EACH REFORTING FERSON		
	74,806 ¹			
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10				
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)		
	Less than $1\%^1$			
12	TYPE OF REPORTIN	IG PERSON		
	PN			

¹Includes 53,195 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON			
	BVF Partners OS Ltd.			
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
	CECTICE ONLY			
3	SEC USE ONLY			
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION		
-				
	Cayman Island	ls		
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		74,806 ¹		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWER		
	ŏ	SHARED DISPOSITIVE POWER		
		$74,806^{1}$		
9	ACCRECATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
5	AGGREGALE ANIO	UNI DENEFICIALEI OWNED DI EACH REFORTING FERSON		
	74,806 ¹			
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	Π	
10				
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)		
	Less than $1\%^1$			
12	TYPE OF REPORTIN	NG PERSON		
	CO			

¹Includes 53,195 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON				
		BVF Partners L.P.			
2	CHECK THE APPF	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
			(b) 🗆		
2	CEC LICE ONLY				
3	SEC USE ONLY				
4	CITIZENSHIP OR 1	PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0 shares			
OWNED BY	6	SHARED VOTING POWER			
EACH					
REPORTING		930,175 ¹			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
	8	0 shares	······		
	8	SHARED DISPOSITIVE POWER			
		930.175^{1}			
9		930,1/5 ⁻ DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
9	AGGREGALE AMO	JUNI BENEFICIALLI OWNED BI EACH REPORTING PERSON			
	930,175 ¹				
10		IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
10		IL ROCKEONE MINOUNT IN NOW (3) ENCLOPES CERTAIN SHARES			
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)			
	$5.2\%^{1}$				
12	TYPE OF REPORT	ING PERSON			
	PN, IA				

 $^1 \mathrm{Includes}$ 625,000 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON					
		BVF Inc.				
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🖂			
			(b) 🗆			
3	SEC USE ONLY		· · · · · · · · · · · · · · · · · · ·			
5	SEC USE ONLY					
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING						
PERSON WITH	7	930,175 ¹ SOLE DISPOSITIVE POWER				
PERSON WITH	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
	-					
		$930,175^{1}$				
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	930,175 ¹					
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11						
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)				
	$5.2\%^{1}$					
12	TYPE OF REPORT	ING DEPSON				
12	I I PE OF REPORT	ING FERJOIN				
	СО					
L						

 $^1 \mathrm{Includes}$ 625,000 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

1	NAME OF REPORTING PERSON				
		Mark N. Lampert			
2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🖂		
			(b) 🗆		
3	SEC USE ONLY				
3	SEC USE ONLY				
4	CITIZENSHIP OR	PLACE OF ORGANIZATION			
	United States	5			
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING		000 4751			
PERSON WITH	7	930,175 ¹ SOLE DISPOSITIVE POWER			
PERSON WITH	/	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		930,175 ¹			
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	930,175 ¹				
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	DEDCENT OF CL				
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)			
	$5.2\%^{1}$				
12	TYPE OF REPORT	ING PERSON			
14	I II L OF KEFOKI				
	IN				
<u>L</u>	1				

 1 Includes 625,000 ADSs, each of which represents one (1) Ordinary Share of the Issuer.

CUSIP NO. 29604W108		
Item 1(a).	Name of Issuer:	
	ERYTECH Pharma S.A., a French corporation (the "Issuer").	
Item 1(b).	Address of Issuer's Principal Executive Offices:	
	Bâtiment Adénine 60 Avenue Rockefeller 69008 Lyon France	
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship	
	Biotechnology Value Fund, L.P. ("BVF") 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenship: Delaware	
	Biotechnology Value Fund II, L.P. ("BVF2") 1 Sansome Street, 30 th 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, 30 th Floor San Francisco, California 94104 Citizenship: Delaware	
	Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenebia: United States	

Citizenship: United States

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

CUSIP NO. 29604W108

Item 2(d).	Title of Class of Securities:			
	Ordinary Shares, nominal value €0.10 per share (the "Shares").			
Item 2(e).	CUSIP Number:			
	29604	4W108		
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.		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) // Inve		Investment company registered under Section 8 of the Investment Company Act.	
	(e) // An investment adviser in accorda		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).		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.		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		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).		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), p the type of institution:	
Item 4.	Ownership			
(a)	Amount beneficially owned:			
	As of the close of business on January 2, 2018 (i) BVF beneficially owned 436,257 Shares, (ii) BVF2 beneficially owned 289,906 Shares, and (iii) Trading Fund OS beneficially owned 74,806 Shares.			

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 74,806 Shares 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 930,175 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners managed accounts (the "Partners Managed Accounts"), including 129,206 Shares, of which 63,239 are represented by ADSs, held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 930,175 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 930,175 Shares 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 owned by another Reporting Person. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares 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 17,924,585 Shares outstanding, which is the total number of Shares outstanding as reported in the Issuer's Prospectus filed with the Securities and Exchange Commission on November 13, 2017.

As of the close of business on January 2, 2018 (i) BVF beneficially owned approximately 2.4% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 1.6% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 5.2% of the outstanding Shares (less than 1% 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.

CUSIP NO. 29604W108

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 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.
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

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.

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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: January 2, 2018

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: <u>s/ Mark N. Lampert</u> Mark N. Lampert President

BVF PARTNERS L.P.

- By: BVF Inc., its general partner
- By: <u>s/ Mark N. Lampert</u> 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: <u>s/ Mark N. Lampert</u> Mark N. Lampert President



Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated January 2, 2018 with respect to the Shares of ERYTECH Pharma S.A., 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: January 2, 2018

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 PARTNERS L.P.

By: BVF Inc., its general partner

By: <u>s/ Mark N. Lampert</u> Mark N. Lampert President

BVF PARTNERS OS LTD.

- By: BVF Partners L.P., its sole member
- By: BVF Inc., its general partner
- By: <u>s/ Mark N. Lampert</u> 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: <u>s/ Mark N. Lampert</u> Mark N. Lampert President

BVF INC.

/s/ Mark N. Lampert

By: Mark N. Lampert President

s/ Mark N. Lampert

MARK N. LAMPERT