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

AC Immune SA

(Name of Issuer)

Common Shares, par value CHF 0.02

(Title of Class of Securities)

H00263105

(CUSIP Number)

January 30, 2019

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

â~] Rule 13d-1(b)

â~' Rule 13d-1(c)

â~ Rule 13d-1(d)

¹ The remainder of this cover page shall be filled out for a reporting personâ€TMs 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 $\hat{a} \in \hat{c}$ filed $\hat{a} \in \hat{c}$ for the purpose of Section 18 of the Securities Exchange Act of 1934 ($\hat{a} \in \hat{c}$ Act $\hat{a} \in \hat{c}$) 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 APPROPRIATE BOX IF A MEMBER OF A GROUP (a) â~		
			(b) â~[]
2	SEC USE ONLY		
3	SEC USE ONLY		
4		R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		2,714,956	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE POWER	
		2,714,956	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
_			
	2,714,956		
10	CHECK BOX IF 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~[]
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.00/		
12	4.0% TYPE OF REPOR	TINC DEDSON	
12	I I PE OF REPOR	TING PERSON	
	PN		
L	111		

1	NAME OF REPOI	RTING PERSON	
		gy Value Fund II, L.P.	() ^~!
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) â~' (b) â~∏
			(U) a 📋
3	SEC USE ONLY		
4	CITIZENSHIP OF	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2,251,511	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,251,511	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	2,251,511		
10	CHECK BUX IF I	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~∏
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.20/		
12	3.3% TYPE OF REPOR	TINC DEDSON	
12	I I FE OF KEPOK		
	PN		

1	NAME OF REPOR	ATING PERSON		
	Biotechnology Value Trading Fund OS LP			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) â~'			
			(b) â~∏	
3	SEC USE ONLY			
J	SEC USE ONLI			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Cayman Islar	nds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING PERSON WITH	7	393,024 SOLE DISPOSITIVE POWER		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		393,024		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	393,024			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~[]	
11	PERCENT OF CL4	ASS REPRESENTED BY AMOUNT IN ROW (9)		
10	Less than 1%			
12	TYPE OF REPORT	LING PERSON		
	PN			

1	NAME OF REPORTING PERSON			
	DVE Davtneys OS I td			
	BVF Partners OS Ltd.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \hat{a} (a) \hat{a}			
			(b) â~[]	
2	SEC USE ONLY			
3	SEC USE ONLY			
4	CITIZENSHID OR	PLACE OF ORGANIZATION		
4				
	Cayman Islan	nds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		393,024		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	0	SHARED DISPOSITIVE POWER		
		393,024		
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	393,024			
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~∏	
11	PERCENT OF CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	Less than 1%			
12	TYPE OF REPOR			
12	I I FE OF KEPUK			
	СО			
L				

1	NAME OF REPORTING PERSON		
	DVE Dortnor	n I D	
2	BVF Partners L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \hat{a}^{*}		
			(b) â~[]
3	SEC USE ONLY		
5	SEC USE ONLI		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,663,760	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SIMALD DISTOSTITVE FOWER	
		5,663,760	
9	AGGREGATE AN	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,663,760		
10	CHECK BOX IF 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~🗌
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	8.4%		
12	TYPE OF REPOR	TINC DERSON	
12	I I FE OF KEPOK		
	PN, IA		
L	,		

1	NAME OF REPORTING PERSON				
	DVE Inc				
	BVF Inc.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \hat{a} (a) \hat{a}				
			(b) â~[]		
2	CEC LICE ONLY				
3	SEC USE ONLY				
4	CITIZENSHID OR	PLACE OF ORGANIZATION			
7					
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0 shares			
OWNED BY	6	SHARED VOTING POWER			
EACH					
REPORTING		5,663,760			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
	8	0 shares SHARED DISPOSITIVE POWER			
	8	SHARED DISPOSITIVE POWER			
		5,663,760			
9	AGGREGATE AN	10UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
5					
	5,663,760				
10	CHECK BOX IF 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~[]		
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.40/				
12	8.4%				
12	TYPE OF REPOR	IIING PERSOIN			
	СО				
L					

1	NAME OF REPORTING PERSON		
	Mark N. Lar	n n n t	
2	Mark N. Lampert		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \hat{a}^{*}		
			(b) â~[]
3	SEC USE ONLY		
5	SEC USE UNLI		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	United State	S	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,663,760	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE POWER	
		5,663,760	
9	AGGREGATE AN	AOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,663,760		
10	CHECK BOX IF 7	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	â~[]
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	0.40/		
12	8.4% TYPE OF REPOR		
12	I TPE OF REPOR	TING FERSON	
	IN		
	11.1		

Item 1(a).	Name of Issuer:
	AC Immune SA, a Switzerland corporation (the "Issuerâ€]]).
Item 1(b).	Address of Issuer's Principal Executive Offices:
	EPFL Innovation Park, Building B 1015 Lausanne, Switzerland
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. ("BVFâ€[]) 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Fund II, L.P. ("BVF2â€]) 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Trading Fund OS LP ("Trading Fund OSâ€[]) PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF Partners OS Ltd. ("Partners OSâ€[]) PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF Partners L.P. ("Partnersâ€[]) 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF Inc. 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
	Mark N. Lampert ("Mr. Lampertâ€]) 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: United States
	Each of the foregoing is referred to as a "Reporting Personâ€□ and collectively as the "Reporting Persons.â€□

Item 2(d).	Title of Class of Securities:			
	Common Shares, par value CHF 0.02 per share (the "Sharesâ€[]).			
Item 2(e).	CUSI	P Numbe	r:	
	H0026	63105		
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:		cially owned:	
	As of the close of business on February 11, 2019 (i) BVF beneficially owned 2,714,956 Shares, (ii) BVF2 beneficially owned 2,251 Shares, and (iii) Trading Fund OS beneficially owned 393,024 Shares.			

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 393,024 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 5,663,760 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Accountâ€], including 304,269 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,663,760 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 5,663,760 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 Account, 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 67,452,253 Shares outstanding, as of August 22, 2018, as disclosed in the Issuer's Registration Statement on Form F-3 filed with the Securities and Exchange Commission on August 24, 2018.

As of the close of business on February 11, 2019 (i) BVF beneficially owned approximately 4.0% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 3.3% 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 8.4% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

- (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 beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Account.
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

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: February 11, 2019

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.

By: /s/ Mark N. Lampert

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

Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated February 11, 2019 with respect to the Common Shares, par value CHF 0.02 per share of AC Immune SA, 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 11, 2019

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.

By: /s/ Mark N. Lampert

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: <u>/s/ Mark N. Lamp</u>ert

Mark N. Lampert President