## **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)<sup>1</sup>

AC Immune SA
(Name of Issuer)
Common Shares, par value CHF 0.02
(Title of Class of Securities)
H00263105
(CUSIP Number)
March 19, 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:
□ 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 <i>Notes</i> ).

1	NAME OF REPORTING PERSON			
1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)   (a)   (b)   (a)   (b)   (a)   (b)   (b)   (c)   (c)   (d)   (d)   (e)   (e)   (f)   (f)   (f)   (f)   (g)   (g)   (h)   (g)   (h)   (g)   (h)   (h)  (h)			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) △  (b) □			
			(0) 🗆	
3	SEC USE ONLY			
5	JEC OJE OIVET			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		2 574 717		
PERSON WITH	7	3,574,717 SOLE DISPOSITIVE POWER		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		3,574,717		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	3,574,717			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □			
11	DEDCENT OF CLA	ACC DEDDECENTED DV AMOUNT IN DOW (0)		
11	PERCENT OF CLF	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	5.3%			
12	TYPE OF REPORT	TNG PERSON		
1-				
	PN			

1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund II, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ⊠			
	(b) □			
	SECTION ONLY			
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER		
EACH	U	SHARED VOTING FOWER		
REPORTING		2,960,945		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		2.060.045		
9	AGGREGATE AM	2,960,945 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
10	2,960,945	A CODE CATE ANOTHER DOLLON ENGLANDES CERTAIN CHARGE		
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)		
	4.4%			
12	TYPE OF REPORT	TING PERSON		
	DNI			
	PN			

1	NAME OF REPORTING PERSON		
	Biotechnolo	gy Value Trading Fund OS LP	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ⊠  (b) □		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Cayman Isla	nds	
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		516,862	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		516,862	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	516,862		
10	,	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	GILDIN BOILIN	TE TOOLEGINE THICKNING IN (C) ETICLO220 CENTING OF THE	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%	6	
12	TYPE OF REPOR		
	PN		

1	NAME OF REPORTING PERSON			
1	NAME OF REPORTING PERSON			
	BVF Partners OS Ltd.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)   (a)   (b)   (c)   (c)   (d)   (d)   (d)   (e)   (e)   (f)   (f)   (f)   (g)   (g)   (g)   (g)   (h)   (h)  (h)			
2	(a) (b)			
			(5) —	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
NUMBER OF	Cayman Islar			
NUMBER OF SHARES	5	SOLE VOTING POWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH	O O	STRIKED VOTINGTOWER		
REPORTING		516,862		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		F1C 0C2		
9	ACCDECATE AM	516,862 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AGGREGALE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	516,862			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	_ ,			
12	Less than 1%			
12	TYPE OF REPORT	ING PERSON		
	CO			
	CO			

1	NAME OF REPO	RTING PERSON		
	BVF Partne	rs L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ☑			
			(b) □	
3	SEC USE ONLY			
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		T 455 50 4		
REPORTING		7,455,534		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
	O	SHARED DISPOSITIVE POWER		
		7,455,534		
9	ACCDECATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
,	AGGREGATE AN	MOONT DENELT GRADET OWNED DT EAGITREFORTING LEIGON		
	7,455,534			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10			_	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
		· /		
	11.0%			
12	TYPE OF REPOR	TING PERSON		
	PN, IA			

1	NAME OF REPORTING PERSON			
1	NAME OF REPORTING PERSON			
	BVF Inc.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ⊠			
_	(a) $\square$			
			(5) =	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Dele			
NUMBER OF	Delaware 5	SOLE VOTING POWER		
SHARES	3	SOLE VOTING FOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		7,455,534		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWER		
	8	SHARED DISPOSITIVE POWER		
		7,455,534		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	7,455,534			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □			
11	DEDCENT OF CLA	ACC DEDDECENTED DV AMOUNT IN DOWL(0)		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	11.0%			
12	TYPE OF REPORT	TING PERSON		
	CO			

1	NAME OF REPORTING PERSON			
1	IVANIE OF REPORTING PERSON			
	Mark N. Lan	npert		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ⊠			
	$(b)$ $\square$			
_				
3	SEC USE ONLY			
4	CITIZENSHID OR	PLACE OF ORGANIZATION		
4	CITIZENSIIII OK	TEACE OF ORGANIZATION		
	United States			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING		7,455,534		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		7,455,534		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	7,455,534			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	LINGERY OF CER	100 ILLI ILLODI I ILMOONI IN NOW (0)		
	11.0%			
12	TYPE OF REPORT	TING PERSON		
	TAT			
	IN			

Name of Issuer: Item 1(a).

AC Immune SA, a Switzerland corporation (the "Issuer").

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

> EPFL Innovation Park, Building B 1015 Lausanne, Switzerland

Name of Person Filing Item 2(a).

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF")

44 Montgomery St., 40<sup>th</sup> Floor San Francisco, California 94104

Citizenship: Delaware

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

44 Montgomery St., 40<sup>th</sup> 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") 44 Montgomery St., 40<sup>th</sup> Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc.

44 Montgomery St., 40<sup>th</sup> Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40<sup>th</sup> 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 of Securities:

Common Shares, par value CHF 0.02 per share (the "Shares").

Item 2(e). CUSIP Number:

H00263105

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:

As of the close of business on March 21, 2019 (i) BVF beneficially owned 3,574,717 Shares, (ii) BVF2 beneficially owned 2,960,945 Shares, and (iii) Trading Fund OS beneficially owned 516,862 Shares.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 516,862 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 7,455,534 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 403,010 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 7,455,534 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 7,455,534 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 67,562,333 Shares outstanding, as of December 31, 2018, as disclosed in the Issuer's Annual Report on Form 20-F filed with the Securities and Exchange Commission on March 21, 2019.

As of the close of business on March 21, 2019 (i) BVF beneficially owned approximately 5.3% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 4.4% 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 11.0% 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 to the Schedule 13G filed with the Securities and Exchange Commission on February 12, 2019.

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: March 21, 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