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

Centessa Pharmaceuticals plc (Name of Issuer)

Ordinary Shares, nominal value £0.002 per share

(Title of Class of Securities)

152309100

(CUSIP Number)

June 6, 2022

(Date of Event Which Requires Filing of this Statement)

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

 \square Rule 13d-1(b)

 \boxtimes Rule 13d-1(c)

 \square 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 REPORTING PERSON				
	Biotechnol	ogy Value Fund, L.P.			
2	CHECK THE AI	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
			(b) 🗆		
3	SEC USE ONLY				
4	CITIZENSHIP C	DR PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY		0 shares			
OWNED BY	6	SHARED VOTING POWER			
EACH REPORTING		3,734,708 shares (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		3,734,708 shares (1)			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	3,734,708	shares (1)			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	4.0% (1)				
12	TYPE OF REPO	RTING PERSON			
	PN				

(1) Represents Ordinary Shares of the Issuer (the "Shares") underlying 3,734,708 American Depositary Shares of the Issuer (the "ADSs") directly owned by the Reporting Person. Each ADS represents one Share.

1	NAME OF REPO	DRTING PERSON	
	BVF I GP I	LC	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	-		
REPORTING		3,734,708 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		3,734,708 shares (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,734,708 s	hares (1)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.0% (1)		
12	TYPE OF REPO	RTING PERSON	
	00		

1	NAME OF REPO	RTING PERSON			
	Biotechnolo	pgy Value Fund II, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)				
3	SEC USE ONLY	SEC USE ONLY			
4	CITIZENSHIP O	R PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES BENEFICIALLY		0 shares			
OWNED BY	6	SHARED VOTING POWER			
EACH REPORTING		2,730,698 shares (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		2,730,698 shares (1)			
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	2,730,698 s	hares (1)			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)			
	2.09/(1)				
12	2.9% (1) TYPE OF REPOR	RTING PERSON			
	DY				
) Poprosonta Sharaa	PN	ADSs directly owned by the Benerting Derson (each ADS represents and Share)			
) Represents Shares (inderlying 2,730,698	ADSs directly owned by the Reporting Person (each ADS represents one Share).			

1	NAME OF REPO	DRTING PERSON	
	BVF II GP	LLC	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2,730,698 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,730,698 shares (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,730,698 s		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
11	FERCENT OF C	LASS REFRESENTED DI AMOUNT IN KOW (9)	
12	2.9% (1) TYPE OF REPOI		
12	I TPE OF KEPOI	ATTINU PERSOTN	
	00		

1	NAME OF REPO	DRTING PERSON	
	Biotechnol	ogy Value Trading Fund OS LP	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP C	R PLACE OF ORGANIZATION	
	Cayman Is	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		334,576 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		334,576 shares (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	334,576 sh	ares (1)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1	% (1)	
12	TYPE OF REPO		
	PN		

1			
1	NAME OF REPO	KIING PERSON	
	BVF Partner	s OS I td	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2		KOLKIME BOX II A WEWBER OF A OROOT	$(b) \square$
			(*) =
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Cayman Isla	nda	
NUMBER OF	Cayman Isia	SOLE VOTING POWER	
SHARES	5	SOLE VOTINGTOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		334,576 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SIMKED DISTOSITIVE TO WER	
		334,576 shares (1)	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	334,576 shar		
10	CHECK BOX IF 1	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPOR	TING PERSON	
(1) D (1)	CO		
(1) Represents Shares (inderlying 334,576 A	DSs that may be deemed to be beneficially owned by the Reporting Person (each ADS r	represents one Share).
		7	

1	NAME OF REPO	PRTING PERSON	
	BVF GP He	oldings LLC	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		6,465,406 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		6,465,406 shares (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	6,465,406 s	hares (1)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
12	6.9% (1) TYPE OF REPOI	2TING PERSON	
12	I I FE OF KEPOI	ATTING I ERSON	
	00		

1	NAME OF REPO	DRTING PERSON	
	BVF Partne	ers L.P.	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	-		
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		6,894,345 shares (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	,	Sole Dist Ostitive Fowerk	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		(904.245 shares(1))	
9	AGGREGATE A	6,894,345 shares (1) MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
,	nooneonen		
	6,894,345 s		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	7.3% (1)		
12	TYPE OF REPOI	RTING PERSON	
	PN, IA		S represents one

1	NAME OF REPO	DRTING PERSON		
	BVF Inc.			
2		PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSHIP C	R PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		6,894,345 shares (1)		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		6,894,345 shares (1)		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	6,894,345 s	shares (1)		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	7.3% (1)			
12	TYPE OF REPO	RTING PERSON		
	СО			
Represents Shares u	underlying 6,894,34	5 ADSs that may be deemed to be beneficially owned by the Reporting Person (each ADS	S represents one Sha	

1	NAME OF REPO	DRTING PERSON		
	Mark N. La	umpert		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □	
3	SEC USE ONLY			
4	CITIZENSHIP O	R PLACE OF ORGANIZATION		
	United Stat	es		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING PERSON WITH	7	6,894,345 shares (1) SOLE DISPOSITIVE POWER		
	,	0 shares		
	8	SHARED DISPOSITIVE POWER		
		6,894,345 shares (1)		
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	6,894,345 s			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)		
	7.3% (1)			
12	TYPE OF REPOI	RTING PERSON		
	IN			

Item 1(a	a).	Name of Issuer:
		Centessa Pharmaceuticals plc, incorporated under the laws of England and Wales (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
		1 Ashley Road, 3 rd Floor Altrincham, Cheshire WA14 2DT United Kingdom
Item 2(a Item 2(a Item 2(a	b).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship
		Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
		BVF I GP LLC ("BVF GP") 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
		Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40 th Floor San Francisco, California 94104 Citizenship: Delaware
		BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40 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 GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc.

44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th 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:

Ordinary Shares, nominal value £0.002 per share (the "Shares"). The Reporting Persons own American Depositary Shares of the Issuer (the "ADSs"), as set forth herein. Each ADS represents one Share.

Item 2(e). CUSIP Number:

152309100

Item 3.

1 NO. 132309100					
	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 June 16, 2022, (i) BVF beneficially owns 3,734,708 Shares underlying ADSs it directly owns, (ii) BVF2 beneficially owns 2,730,698 Shares underlying ADSs it directly owns, and (iii) Trading Fund OS beneficially owns 334,576 Shares underlying ADSs it directly owns.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 3,734,708 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 2,730,698 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 334,576 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 6,465,406 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 6,894,345 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and 94,363 Shares underlying ADSs held in a certain Partners managed account (the "Partners Managed Account").

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 6,894,345 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 6,894,345 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. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF2. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by BVF2. Partners OS disclaims beneficial ownership of the Shares beneficially owned by BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF2 and Trading Fund OS and the Shares underlying the ADSs held in 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 94,041,029 Shares outstanding as of May 9, 2022, as disclosed in the Issuer's Definitive Proxy Statement on Schedule 14A filed with the Securities and Exchange Commission on May 23, 2022.

As of the close of business on June 16, 2022, (i) BVF beneficially owned approximately 4.0% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 2.9% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 4.0% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.9% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 6.9% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 7.3% of the outstanding Shares (less than 1% of the outstanding Shares are represented by ADSs held in the Partners Managed Account).

Number of shares as to which such person has: (c) Sole power to vote or to direct the vote (i) 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. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF and BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and the Shares underlying the ADSs held in 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 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: June 16, 2022

BIOTECHNOLOGY VALUE FUND, L.P.

- By: BVF I GP LLC., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

- By: BVF II GP LLC, its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF II GP LLC

- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer
- 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

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF PARTNERS L.P.

- 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

Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated June 16, 2022 with respect to the Ordinary Shares, nominal value $\pounds 0.002$ per share, of Centessa Pharmaceuticals plc, incorporated under the laws of England and Wales, 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: June 16, 2022

BIOTECHNOLOGY VALUE FUND, L.P.

- By: BVF I GP LLC., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

- By: BVF II GP LLC, its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF II GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

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

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF PARTNERS L.P.

- 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