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

TScan Therapeutics, Inc.	
(Name of Issuer)	
Voting Common Stock, \$0.0001 par value per share	
(Title of Class of Securities)	
89854M101	
(CUSIP Number)	
September 30, 2024	
(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 subject class of securities, and for any subsequent amendment containing information which would alter disclosures 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 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 Notes).	

1	NAME OF REPORT	ING PERSON	
		Value Fund, L.P.	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		3,681,509 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		3,681,509 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,681,509 (1)		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)	
	7.2% (1)		
12	TYPE OF REPORTIN	NG PERSON	
		·· • • - ·	
	PN		

(1) Includes 2,083,529 Shares (as defined below) underlying certain Pre-Funded Warrants (as defined below).

1	NAME OF REPORT	ING PERSON	
	BVF I GP LLC	,	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER 3,681,509 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 3,681,509 (1)	
9	AGGREGATE AMO 3,681,509 (1)	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS 7.2% (1)	SS REPRESENTED BY AMOUNT IN ROW (9)	
12	TYPE OF REPORTION	NG PERSON	

1	NAME OF REPOR	TING PERSON	
	Biotechnolog	gy Value Fund II, L.P.	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER 1,210,605	
PERSON WITH	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER	
9	AGGREGATE AM	1,210,605 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,210,605		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
12	2.5% TYPE OF REPORT	FING DEDGON	
12		ling person	
	PN		

1	NAME OF REPORTING PERSON		
	BVF II GP 1		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	D.L.		
NUMBER OF	Delaware 5	SOLE VOTING POWER	
NUMBER OF SHARES	3	SOLE VOTING POWEK	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH		STRICED TOTAL OTTER	
REPORTING		1,210,605	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		1,210,605	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1.210.605		
10	1,210,605	THE ACORECATE AMOUNT IN DOW (0) EVOLUDED DEPTART OF A PEC	
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DED CENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I ERCENT OF CL	ASS REFRESENTED DT AMOUNT IN ROW (3)	
	2.5%		
12	TYPE OF REPOR	TING PERSON	
1-2			
	00		

1	NAME OF REPORT	TING PERSON	
		y Value Trading Fund OS LP	
2	CHECK THE APPR	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) 🗆
3	SEC USE ONLY		
3	SEC OSE ONEI		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Cayman Islan	de	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH		140.576	
REPORTING PERSON WITH	7	140,576 SOLE DISPOSITIVE POWER	
TERSON WITH	/	SOLE DISPOSITIVE FOWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		140.577	
9	ACCDECATE AM	140,576 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING LEASON	
	140,576		
10	CHECK BOX IF THE	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I ERCENT OF CEA	AND REFREDERIED DT AMOUNT IN ROW (7)	
	Less than 1%		
12	TYPE OF REPORT	TING PERSON	
	DNI		
	PN		

	NAME OF PEROP	TRY O PERCON	
1	NAME OF REPOR	TING PERSON	
	BVF Partners		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Cayman Islan	ds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		140,576	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		140,576	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	140,576		
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)	
	Less than 1%		
12	TYPE OF REPORT	TING PERSON	
	CO		

1	NAME OF REPOR	DTING DEDGON	
1	NAME OF KEPOR	KIING PERSUN	
	BVF GP Hol	dings II C	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE ALL	ROI RIATE BOA IF A MEMBER OF A GROOT	(a) ⊠ (b) □
			(0) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		4,892,114 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
TERROOT WITH	,	SOLE DISTOSITIVE TOWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		4,892,114 (1)	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4.000 4.1.1.1		
10	4,892,114 (1		
10	CHECK BOX IF T	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I ERCENT OF CL	ADD REFREDERIED DI ANNOUNT IN ROW (7)	
	9.6% (1)		
12	TYPE OF REPOR	TING PERSON	
	00		
	-		

1	NAME OF REPORT	ING PERSON	
	BVF Partners L	P.	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY	6	SHARED VOTING POWER	
EACH	_		
REPORTING		5,073,003 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		5,073,003 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,073,003 (1)		
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)	
	0.000/ (1)		
12	9.99% (1) TYPE OF REPORTIN	NC DED SON	
12	TIPE OF KEPOKIII	NO FERSON	
	PN, IA		

1	NAME OF REPOR	OTING DEDCON	
1	NAME OF REPOR	ATING PERSON	
	BVF Inc.		
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
			(0) 🗆
3	SEC USE ONLY		
3	SEC OSE ONE!		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH		5.052.002.(1)	
REPORTING		5,073,003 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
	0	SHARLD DISTOSITIVE TO WER	
		5,073,003 (1)	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,073,003 (1)		
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)	
	0.000/ (1)		
12	9.99% (1) TYPE OF REPOR	FINC DEDCON	
12	I TPE OF KEPOK	HING PERSON	
	СО		

<u> </u>	+		
1	NAME OF REPO	RTING PERSON	
	Mark N. Lar		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
			` '
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	United State	S	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,073,003 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		5,073,003 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,073,003 (1		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.99% (1)		
12	TYPE OF REPOR	TING PERSON	
	IN		

Name of Issuer: Item 1(a).

TScan Therapeutics, Inc., a Delaware corporation (the "Issuer").

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

830 Winter Street

Waltham, Massachusetts 02451

Item 2(a). Name of Person Filing

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

Citizenship Item 2(c).

> Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

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

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

Citizenship: Delaware

BVF II GP LLC ("BVF2 GP")

44 Montgomery St., 40th 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:

Voting Common Stock, \$0.0001 par value per share (the "Shares").

Item 2(e). CUSIP Number:

89854M101

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)	//	A non-U.S. institution, in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)	//	Group, in accordance with Rule $13d-1(b)(1)(ii)(K)$. If filing as a non-U.S. institution in accordance with Rule $13d-1(b)(1)(ii)(J)$, please specify the type of institution:

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on September 30, 2024, the Reporting Persons and a certain Partners managed account (the "Partners Managed Account") held Pre-Funded Warrants (the "Pre-Funded Warrants") exercisable for an aggregate of 12,060,526 Shares. The Pre-Funded Warrants are exercisable at any time at an exercise price of \$0.0001 per Share and do not expire. A holder of Pre-Funded Warrants will not have the right to exercise any portion of its Pre-Funded Warrants which, upon giving effect to such exercise, would cause the aggregate number of Shares beneficially owned by the holder (together with its affiliates and other attribution parties (as defined in the Pre-Funded Warrant)) to exceed 4.99% of the Shares outstanding immediately after such exercise (the "Pre-Funded Warrants Blocker"). The 4.99% ownership limitation applicable to the Pre-Funded Warrants held by the Reporting Persons and the Partners Managed Account was increased to 9.99% in accordance with the terms of the Pre-Funded Warrants Blocker. Accordingly, as of the close of business on September 30, 2024, based on the 9.99% ownership limitation, the Pre-Funded Warrants Blocker limits the exercise of the Pre-Funded Warrants held by the Reporting Persons and the Partners Managed Account to 2,083,529 out of the 12,060,526 Shares underlying the Pre-Funded Warrants held by them.

As of the close of business on September 30, 2024, (i) BVF beneficially owned 3,681,509 Shares, including 2,083,529 Shares underlying certain Pre-Funded Warrants held by it and excluding 4,289,365 Shares underlying certain Pre-Funded Warrants held by it, (ii) BVF2 beneficially owned 1,210,605 Shares, excluding 4,983,846 Shares underlying the Pre-Funded Warrants held by it, and (iii) Trading Fund OS beneficially owned 140,576 Shares, excluding 503,238 Shares underlying the Pre-Funded Warrants held by it.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 3,681,509 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 1,210,605 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 140,576 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 4,892,114 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 5,073,003 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Account, including 40,313 Shares held in the Partners Managed Account and excluding 200,548 Shares underlying the Pre-Funded Warrants held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,073,003 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 5,073,003 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 BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by BVF2. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, BVF2 and Trading Fund OS and 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 upon a denominator that is the sum of: (i) 48,697,282 Shares outstanding as of August 8, 2024, which is the total number of Shares outstanding as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on August 12, 2024 and (ii) 2,083,529 Shares issuable upon the exercise of certain Pre-Funded Warrants held by the Reporting Persons, as applicable.

As of the close of business on September 30, 2024, (i) BVF beneficially owned approximately 7.2% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 2.5% 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 7.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.5% 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 9.6% of the outstanding Shares, and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.99% 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.

BVF GP, BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and 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 to the Schedule 13G filed with the Securities and Exchange Commission on June 5, 2023.

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 14, 2024 BIOTECHNOLOGY VALUE FUND, L.P. BIOTECHNOLOGY VALUE TRADING FUND OS LP BVF I GP LLC, its general partner By: BVF Partners L.P., its investment manager BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF I GP LLC BVF GP HOLDINGS LLC /s/ Mark N. Lampert By: Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert Chief Executive Officer BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P. BVF II GP LLC, its general partner By: BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF II GP LLC BVF INC. By: /s/ Mark N. Lampert By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF PARTNERS OS LTD. /s/ Mark N. Lampert

BVF Partners L.P., its sole member BVF Inc., its general partner

By: /s/ Mark N. Lampert Mark N. Lampert

President

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MARK N. LAMPERT