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. 5)¹

Cullinan Therapeutics, Inc. (Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

230031106

(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:

 \Box Rule 13d-1(b)

 \boxtimes Rule 13d-1(c)

 \Box 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 REPO	RTING PERSON			
		gy Value Fund, L.P.			
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
			(b) 🗆		
3	SEC USE ONLY				
4	CITIZENSHIP OI	R PLACE OF ORGANIZATION			
	D 1				
	Delaware	COLE VOTING DOWED			
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY		0			
OWNED BY	6	SHARED VOTING POWER			
EACH	0	SHARED VOTING FOWER			
REPORTING		2,997,820 (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
	,				
		0			
	8	SHARED DISPOSITIVE POWER			
		2,997,820 (1)			
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
10	2,997,820 (1				
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	DED GENTE OF OF A GO DEDDEGENTED DV AN OUDTE DI DOW (0)				
11	PERCENT OF CL	LASS REPRESENTED BY AMOUNT IN ROW (9)			
	5.2% (1)				
12	TYPE OF REPOR	PTING PERSON			
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(1) Includes 45,750 Shares (as defined below) underlying certain Series A Preferred Stock (as defined below).

1	NAME OF REPO	RTING PERSON				
		BVF I GP LLC				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP $(a) \boxtimes$					
			(b) 🗆			
3	SEC USE ONLY					
5	SEC USE ONEI					
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0				
OWNED BY	6	SHARED VOTING POWER				
EACH						
REPORTING		2,997,820 (1)				
PERSON WITH	7	SOLE DISPOSITIVE POWER				
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		2,997,820 (1)				
9	AGGREGATE AN	NOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
10	2,997,820 (1					
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.2% (1)					
12	TYPE OF REPOR	TING PERSON				
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L				
1	NAME OF REPOR	RTING PERSON		
		gy Value Fund II, L.P.		
2	CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (
			(b) 🗆	
3	SEC USE ONLY			
4		R PLACE OF ORGANIZATION		
4	CITIZENSHIP OF	THACE OF ORDANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES	-			
BENEFICIALLY		0		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		2,435,836		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 SHARED DISPOSITIVE POWER		
	8	SHARED DISPOSITIVE POWER		
		2,435,836		
9	AGGREGATE AN	AOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
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	2,435,836			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	4.20/			
12	4.2% TYPE OF REPOR	TINC DEDSON		
12	I TPE OF KEPOK	IIINU PERSOIN		
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1	NAME OF REPO	ORTING PERSON			
	BVF II GP				
2	CHECK THE AP	(a) 🗵			
			(b) 🗆		
3	SEC USE ONLY				
4	CITIZENSHIP O	R PLACE OF ORGANIZATION			
т					
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0			
OWNED BY	6	SHARED VOTING POWER			
EACH					
REPORTING		2,435,836			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
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	8	SHARED DISPOSITIVE POWER			
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		2,435,836			
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	2,435,836				
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
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11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)			
	4.2%				
12	TYPE OF REPOI	RTING PERSON			
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	00				
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1	NAME OF REPOR	RTING PERSON		
		Biotechnology Value Trading Fund OS LP		
2	CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)		
			(b) 🗆	
3	SEC USE ONLY			
4	CITIZENSUIDOE	R PLACE OF ORGANIZATION		
4	CITIZENSHIP OF	A PLACE OF ORGANIZATION		
	Cayman Isla	nds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES	C C			
BENEFICIALLY		0		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		236,693		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
		226 (02		
9	ACCDECATE AN	236,693 40UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AUGREGATE AN	JOUNT BENEFICIALLI OWNED DI EACH REFORTINO FERSON		
	236,693			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
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11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	Less than 1%			
12	TYPE OF REPOR	TING PERSON		
	D. I			
	PN			

1	NAME OF REPO	RTING PERSON		
	BVF Partner			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a			
			(b) 🗆	
2	OF CLOP ONLY			
3	SEC USE ONLY			
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION		
	Cayman Isla	nds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0		
OWNED BY	6	SHARED VOTING POWER		
EACH		225 (22)		
REPORTING PERSON WITH		236,693		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
		236,693		
9	AGGREGATE AN	NOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	236,693			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11	I EKCENT OF CL	Ass Ref Reserved D1 AWOUNT IN ROW (9)		
	Less than 19	6		
12	TYPE OF REPOR			
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	+				
1	NAME OF REPO	ORTING PERSON			
		oldings LLC			
2	CHECK THE AP	(a) 🗵			
			(b) 🗆		
3	SEC USE ONLY				
3	SEC USE ONLY				
4	CITIZENSHIP O	R PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0			
OWNED BY	6	SHARED VOTING POWER			
EACH REPORTING		5 100 (5((1)			
PERSON WITH	7	5,433,656 (1) SOLE DISPOSITIVE POWER			
TERSON WITH	/	SOLE DISPOSITIVE FOWER			
		0			
	8	SHARED DISPOSITIVE POWER			
		5,433,656 (1)			
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5 422 (56)	1)			
10	5,433,656 (1) THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	9.4% (1)				
12	TYPE OF REPOR	RTING PERSON			
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1	NAME OF REPO	DRTING PERSON			
	BVF Partne				
2	CHECK THE AP	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
			(b) 🗆		
3	SEC USE ONLY				
5	SEC USE UNLI				
4	CITIZENSHIP O	R PLACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY					
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING		5,796,433 (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
	,				
		0			
	8	SHARED DISPOSITIVE POWER			
0		5,796,433 (1) MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
9	AGGREGALE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5,796,433 (1)			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.000/ (1)				
12	9.99% (1) TYPE OF REPO	DTING DEDSON			
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	PN, IA				

1	NAME OF REPO	RTING PERSON		
	BVF Inc.			
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	$(a) \boxtimes$	
			(b) 🗆	
3	SEC USE ONLY			
5	SEC USE UNLI			
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	· · · · · ·	
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY				
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		5 706 423 (1)		
PERSON WITH	7	5,796,433 (1) SOLE DISPOSITIVE POWER		
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		0		
	8	SHARED DISPOSITIVE POWER		
		5,796,433 (1)		
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5 706 400 (х.		
10	5,796,433 (1			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	9.99% (1)			
12	TYPE OF REPOR	TING PERSON		
	CO			

	+				
1	NAME OF REPO	ORTING PERSON			
	Mark N. La		(a) 🗵		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP				
			(b) 🗆		
3	SEC USE ONLY				
4		R PLACE OF ORGANIZATION			
4	CITIZENSHIF O	R FLACE OF OROANIZATION			
	United Stat	es			
NUMBER OF	5	SOLE VOTING POWER			
SHARES	-				
BENEFICIALLY		0			
OWNED BY	6	SHARED VOTING POWER			
EACH					
REPORTING		5,796,433 (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
		0			
	8	SHARED DISPOSITIVE POWER			
	0	SHARED DISI OSHTVE FOWER			
		5,796,433 (1)			
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	5,796,433 (
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
11	PERCENT OF C	LASS KERKESENTED BY AMOUNT IN KOW (9)			
	9.99% (1)				
12	TYPE OF REPOI	RTING PERSON			
	IN				
	*				

Item 1(a).	Name of Issuer:
	Cullinan Therapeutics, Inc., a Delaware corporation (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
	One Main Street, Suite 1350 Cambridge, MA 02142
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") 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

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CUSIP No. 230031106			
	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:		
	Common Stock, par value \$0.0001 per share (the "Shares").		
Item 2(e).	CUSIP Number:		
	230031106		
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 an aggregate of 647,500 shares of Series A convertible preferred stock (the "Series A Preferred Stock"), convertible into an aggregate of 6,475,000 Shares. Each share of Series A Preferred Stock is convertible into 10 Shares at the option of the holder at any time, subject to certain limitations, including that the holder will be prohibited from converting its Series A Preferred Stock into Shares if, as a result of such conversion, the holder, together with its affiliates, would beneficially own a number of Shares above 9.99% of the total Common Stock then issued and outstanding immediately following the conversion of such shares of Series A Preferred Stock (the "Conversion Blocker"). As of the close of business on September 30, 2024, the Conversion Blocker limits the conversion of the Series A Preferred Stock held by the Reporting Persons and the Partners Managed Account to 45,750 out of the 6,475,000 Shares underlying the Series A Preferred Stock held by them.

As of the close of business on September 30, 2024, (i) BVF beneficially owned 2,997,820 Shares, including 45,750 Shares underlying certain Series A Preferred Stock held by it and excluding 3,454,250 Shares underlying certain Series A Preferred Stock held by it, (ii) BVF2 beneficially owned 2,435,836 Shares, excluding the 2,600,000 Shares underlying the Series A Preferred Stock held by it, and (iii) Trading Fund OS beneficially owned 236,693 Shares, excluding the 300,000 Shares underlying the Series A Preferred Stock held by it.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 2,997,820 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 2,435,836 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 236,693 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 5,433,656 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 5,796,433 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Account, including 126,084 Shares held in the Partners Managed Account and excluding 75,000 Shares underlying the Series A Preferred Stock held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,796,433 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 5,796,433 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. Partners OS disclaims beneficially owned by BVF2 and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by 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) 57,976,641 Shares outstanding as of July 31, 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 8, 2024, and (ii) 45,750 Shares underlying certain Series A Preferred Stock held by the Reporting Persons, as applicable.

As of the close of business on September 30, 2024, (i) BVF beneficially owned approximately 5.2% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 4.2% 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 5.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 4.2% 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 9.4% 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 by the Reporting Persons with the Securities and Exchange Commission on November 8, 2021.

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.

- 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