## 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.)<sup>1</sup>

4D Molecular Therapeutics, Inc.
(Name of Issuer)
Common Stock, par value \$0.0001 per share
(Title of Class of Securities)
35104E 10 0
(CUSIP Number)
June 25, 2021
(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 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, <i>see</i> the <i>Notes</i> ).

1	NAME OF REPORT	TINC DEDSON		
1	INAME OF REPORT	NAME OF REPORTING PERSON		
	Biotechnology Value Fund, L.P.			
2		OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
_			(b) □	
			( )	
3	SEC USE ONLY			
_				
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES		SOLE VOING TOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		1,039,719		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		OTHER BIOLOGITY ETOWER		
		1,039,719		
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
- 10	1,039,719			
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	3.9%			
12	TYPE OF REPORT	NG PERSON		
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# CUSIP No. 35104E 10 0

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1	NAME OF REPO	NAME OF REPORTING PERSON		
	BVF I GP LLC			
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		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		1,039,719		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
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		0 shares		
	8	SHARED DISPOSITIVE POWER		
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		1,039,719		
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	1,039,719			
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10	CHECK BOX II	THE PROGRESHIE PHOTOLIT IN NOW (3) ENGLODED CERTIFICOTIFICED		
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	3.9%			
12	TYPE OF REPOR	TING PERSON		
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1	NAME OF REPOR	NAME OF REPORTING PERSON		
	Biotechnology Value Fund II, L.P.			
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
•				
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES		JOZE VOINGTOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		SHAKED VOTING TOWER		
REPORTING		765,555		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		<b>705 555</b>		
		765,555		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	765,555			
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)		
	2.9%			
12	TYPE OF REPORT	TING PERSON		
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1	NAME OF REPORT	TING DERSON		
1	NAME OF REPORT	WHILE OF REFORTING LERGOTV		
	BVF II GP LLC			
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) □	
3	SEC USE ONLY			
4	CITIZENCUID OD I	PLACE OF ORGANIZATION		
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	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY	_	0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH REPORTING		765,555		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
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		0 shares		
	8	SHARED DISPOSITIVE POWER		
9	ACCDECATE AMO	765,555 DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AGGREGATE AMO	JUNI BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	765,555			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
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11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	2.9%			
12	TYPE OF REPORT	ING PERSON		
12	TITE OF REPORT	IIIO I LINOTI		
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	T			
1	NAME OF REPOR	NAME OF REPORTING PERSON		
	Biotechnology Value Trading Fund OS LP			
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
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	Cayman Islar	nds		
NUMBER OF	5	SOLE VOTING POWER		
SHARES		SOLE VOINGTOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		SHAKED VOTING FOWER		
REPORTING		131,456		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
PERSON WITH	/	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		101.470		
		131,456		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	131,456			
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		
	PN			
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	1		
1	NAME OF REPO	RTING PERSON	
	BVF Partners OS Ltd.		
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) 🗵	
			(b) □
			( )
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Cayman Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES		SOLE VOINGTOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		SIRRED VOING FOWER	
REPORTING		131,456	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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		0 shares	
	8	SHARED DISPOSITIVE POWER	
		SIMILED BISTOSITIVE TOWER	
		131,456	
9	AGGREGATE AT	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	TIGGILE TIL	ACCOUNT BENEFICIALED OWNED BY ENGINEER ON THE OFFICE OF	
	131,456		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOTT II	THE TIGGREEGINE THROUGH IN THOM (b) ENGLODED CERTIFICOTINE	
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I LINGLINI OI CI	2.100 (12.11.12.2.2.1.11.11.11.11.11.11.11.11.1	
	Less than 19	%	
12	TYPE OF REPOR		
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		TILLO DED COLL		
1	NAME OF REPOR	NAME OF REPORTING PERSON		
	BVF GP HO			
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) □	
3	SEC USE ONLY			
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		1,805,274		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		1,805,274		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	_	
	1,805,274			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	6.8%			
12	TYPE OF REPORT	TING PERSON		
	00			

1	NAME OF REPORT	NAME OF REPORTING PERSON		
	BVF Partners L.P.			
2	CHECK THE APPR	COPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		2,005,862		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		2,005,862		
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,005,862			
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	7.5%			
12	TYPE OF REPORT	ING PERSON		
	PN, IA			

1	NAME OF REPORT	TINC DEBSON		
1	NAME OF REPORT	NAME OF REPORTING PERSON		
	BVF Inc.			
2		OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
2	CHECK THE MITK	OF RIVITE BOX IF A WIEWIDER OF A GROOT	(a) ⊡ (b) □	
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3	SEC USE ONLY			
4	CITIZENSHIP OR F	LACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES		O shares		
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER		
EACH	0	SHARED VOTING POWER		
REPORTING		2,005,862		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		2,005,862		
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2.005.962			
10	2,005,862	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П	
10	CHECK BOX IF TH	LE AGGREGATE AMOUNT IN ROW (3) EACEODES CERTAIN STIARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
		` '		
	7.5%			
12	TYPE OF REPORTI	NG PERSON		
	CO			

1	NAME OF REPO	RTING PERSON	
	Mark N. Lampert		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHID OF	R PLACE OF ORGANIZATION	
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NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		0.005.070	
REPORTING		2,005,862	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		STATES STOTES TO WELL	
		2,005,862	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,005,862		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	-
11	I LICENT OF CL	MOO KEI KESEKTED DI AMOONI IN KOW (3)	
	7.5%		
12	TYPE OF REPOR	TING PERSON	
	IN		

## CUSIP No. 35104E 10 0

Item 1(a). Name of Issuer:

4D Molecular Therapeutics, Inc., a Delaware corporation (the "Issuer").

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

5858 Horton Street #455 Emeryville, CA 94608

Item 2(a). Name of Person Filing

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., 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:

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

Item 2(e). CUSIP Number:

35104E 10 0

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: $\_\_$

## CUSIP No. 35104E 10 0

#### Item 4. Ownership

#### (a) Amount beneficially owned:

As of the close of business on July 6, 2021, (i) BVF beneficially owned 1,039,719 Shares, (ii) BVF2 beneficially owned 765,555 Shares and (iii) Trading Fund OS beneficially owned 131,456 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 1,039,719 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 765,555 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 131,456 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 1,805,274 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 2,005,862 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 69,132 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,005,862 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 2,005,862 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, 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 26,745,774 Shares outstanding, which is the total number of Shares outstanding as of May 7, 2021 as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 13, 2021.

As of the close of business on July 6, 2021, (i) BVF beneficially owned approximately 3.9% 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 3.9% 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 6.8% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 7.5% 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, the Partners Managed Account and BVF GPH.

## CUSIP No. 35104E 100

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: July 6, 2021

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

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#### **Joint Filing Agreement**

The undersigned hereby agree that the Statement on Schedule 13G dated July 6, 2021 with respect to the shares of Common Stock, par value \$0.0001 per share of 4D Molecular Therapeutics, Inc., a Delaware corporation, 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: July 6, 2021

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