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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G

INFORMATION TO BE INCLUDED IN STATEMENTS PURSUANT TO RULES 13d-1(b),(c) AND (d) AND  
AMENDMENTS THERETO FILED PURSUANT TO 13d-2 UNDER THE SECURITIES EXCHANGE ACT OF 1934\*

4D Molecular Therapeutics, Inc.  
(Name of Issuer)

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

35104E100  
(CUSIP Number)

December 15, 2020  
(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 in 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*).

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1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  Viking Global Investors LP		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0	
	6	SHARED VOTING POWER  3,937,914*	
	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER  3,937,914*	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*		
12	TYPE OF REPORTING PERSON  PN		

\* See Item 4

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  Viking Global Opportunities GP LLC		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0	
	6	SHARED VOTING POWER  3,937,914*	
	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER  3,937,914*	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*		
12	TYPE OF REPORTING PERSON  OO		

\* See Item 4

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  Viking Global Opportunities Portfolio GP LLC		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0	
	6	SHARED VOTING POWER  3,937,914*	
	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER  3,937,914*	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*		
12	TYPE OF REPORTING PERSON  OO		

\* See Item 4

1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  Viking Global Opportunities Illiquid Investments Sub-Master 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 Islands	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0
	6	SHARED VOTING POWER  3,937,914*
	7	SOLE DISPOSITIVE POWER  0
	8	SHARED DISPOSITIVE POWER  3,937,914*
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*	
12	TYPE OF REPORTING PERSON*  PN	

\* See Item 4

1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  O. Andreas Halvorsen		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Norway		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0	
	6	SHARED VOTING POWER  3,937,914*	
	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER  3,937,914*	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*		
12	TYPE OF REPORTING PERSON*  IN		

\* See Item 4

1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)	
	David C. Ott	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION  United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0
	6	SHARED VOTING POWER  3,937,914*
	7	SOLE DISPOSITIVE POWER  0
	8	SHARED DISPOSITIVE POWER  3,937,914*
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*	
12	TYPE OF REPORTING PERSON*  IN	

\* See Item 4

1	NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)  Rose S. Shabet		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  0	
	6	SHARED VOTING POWER  3,937,914*	
	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER  3,937,914*	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  3,937,914*		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  14.9%*		
12	TYPE OF REPORTING PERSON*  IN		

\* See Item 4



Item 1(a). Name of Issuer:

4D Molecular Therapeutics, Inc.

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

5858 Horton Street #455,  
Emeryville, California 94608

Item 2(a). Name of Person Filing:

Viking Global Investors LP ("VGI"),  
Viking Global Opportunities GP LLC ("Opportunities GP"),  
Viking Global Opportunities Portfolio GP LLC ("Opportunities Portfolio GP"),  
Viking Global Opportunities Illiquid Investments Sub-Master LP ("VGOP"),  
O. Andreas Halvorsen, David C. Ott and Rose S. Shabet (collectively, the "Reporting Persons")

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

The business address of each of the Reporting Persons is: 55 Railroad Avenue, Greenwich, Connecticut 06830.

Item (c). Citizenship:

VGI is a Delaware limited partnership; Opportunities GP and Opportunities Portfolio GP are Delaware limited liability companies; VGOP is a Cayman Islands exempted limited partnership; O. Andreas Halvorsen is a citizen of Norway; and David C. Ott and Rose S. Shabet are citizens of the United States.

Item 2(d). Titles of Classes of Securities:

Common stock, par value \$0.0001 per share ("Common Stock")

Item 2(e). CUSIP NUMBER: 35104E100

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:

- (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 of 1940
  - (e)  Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940: see Rule 13d-1(b)(1)(ii)(E)
  - (f)  Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see Rule 13d-1(b)(1)(ii)(F)
  - (g)  Parent holding company, in accordance with Rule 13d-1(b)(1)(ii)(G).
  - (h)  Savings Association as defined in Section 3(b) of the Federal Deposit Insurance Act.
  - (i)  Church Plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940.
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(j)  Non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J). 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:

(k)  Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

Item 4.            Ownership:

A. VGI

(a) Amount beneficially owned: 3,937,914

(b) Percent of Class: 14.9%

(c) Number of shares as to which such person has:

(i) Sole power to vote or to direct the vote: 0

(ii) Shared power to vote or to direct the vote: 3,937,914

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of: 3,937,914

VGI provides managerial services to VGOP. VGI has the authority to dispose of and vote the shares of Common Stock.

Based on Rule 13d-3 of the Securities Exchange Act of 1934, as amended (the "Act"), VGI may be deemed to beneficially own the shares of Common Stock directly held by VGOP. VGI does not directly own any shares of Common Stock.

B. Opportunities GP

(a) Amount beneficially owned: 3,937,914

(b) Percent of Class: 14.9%

(c) Number of shares as to which such person has:

(i) Sole power to vote or to direct the vote: 0

(ii) Shared power to vote or to direct the vote: 3,937,914

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of: 3,937,914

Opportunities GP serves as the sole member of Opportunities Portfolio GP and has the authority to dispose of and vote the shares of Common Stock controlled by Opportunities Portfolio GP, which consists of the shares of Common Stock directly held by VGOP. Opportunities GP does not directly own any shares of Common Stock.

Based on Rule 13d-3 of the Act, Opportunities GP may be deemed to beneficially own the shares of Common Stock directly held by VGOP.

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C. Opportunities Portfolio GP

- (a) Amount beneficially owned: 3,937,914
- (b) Percent of Class: 14.9%
- (c) Number of shares as to which such person has:
  - (i) Sole power to vote or to direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 3,937,914
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 3,937,914

Opportunities Portfolio GP serves as the general partner of VGOP and has the authority to dispose of and vote the shares of Common Stock directly owned by VGOP. Opportunities Portfolio GP does not directly own any shares of Common Stock.

Based on Rule 13d-3 of the Act, Opportunities Portfolio GP may be deemed to beneficially own the shares of Common Stock directly held by VGOP.

D. VGOP

- (a) Amount beneficially owned: 3,937,914
- (b) Percent of Class: 14.9%
- (c) Number of shares as to which such person has:
  - (i) Sole power to vote or to direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 3,937,914
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 3,937,914

VGOP has the authority to dispose of and vote the shares of Common Stock directly owned by it, which power may be exercised by its general partner, Opportunities Portfolio GP, and by VGI, an affiliate of Opportunities Portfolio GP, which provides managerial services to VGOP. Viking Global Opportunities LP (a Delaware limited partnership) and Viking Global Opportunities III LP (a Cayman Islands exempted limited partnership), through its investment in Viking Global Opportunities Intermediate LP (a Cayman Islands exempted limited partnership), invest substantially all of their assets in Viking Global Opportunities Master LP (a Cayman Islands exempted limited partnership), which in turn invests through VGOP.

E. O. Andreas Halvorsen, David C. Ott and Rose S. Shabet

- (a) Amount beneficially owned: 3,937,914
  - (b) Percent of Class: 14.9%
  - (c) Number of shares as to which such person has:
    - (i) Sole power to vote or to direct the vote: 0
    - (ii) Shared power to vote or to direct the vote: 3,937,914
    - (iii) Sole power to dispose or to direct the disposition of: 0
    - (iv) Shared power to dispose or to direct the disposition of: 3,937,914
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Mr. Halvorsen, Mr. Ott and Ms. Shabet, as Executive Committee Members of Viking Global Partners LLC, general partner of VGI and Opportunities GP have shared authority to dispose of and vote the shares of Common Stock beneficially owned by VGI and Opportunities GP. None of Mr. Halvorsen, Mr. Ott and Ms. Shabet directly owns any shares of Common Stock.

Based on Rule 13d-3 of the Act, each may be deemed to beneficially own the shares of Common Stock directly held by VGOP.

Item 5.            Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Item 6.            Ownership of More than Five Percent on Behalf of Another Person.

Not applicable.

Item 7.            Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable.

Item 8.            Identification and Classification of Members of the Group.

Not applicable.

Item 9.            Notice of Dissolution of Group.

Not applicable.

Item 10.          Certification. (if filing pursuant to Rule 13d-1(c))

By signing below each Reporting Person 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 not held in connection with or as a participant in any transaction having that purpose or effect.

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**SIGNATURES**

After reasonable inquiry and to the best of our knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Dated: December 21, 2020

/s/ O. ANDREAS HALVORSEN

By: O. Andreas Halvorsen - individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL OPPORTUNITIES GP LLC, on behalf of itself and VIKING GLOBAL OPPORTUNITIES PORTFOLIO GP LLC, and VIKING GLOBAL OPPORTUNITIES ILLIQUID INVESTMENTS SUB-MASTER LP

/s/ DAVID C. OTT

By: David C. Ott - individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL OPPORTUNITIES GP LLC, on behalf of itself and VIKING GLOBAL OPPORTUNITIES PORTFOLIO GP LLC, and VIKING GLOBAL OPPORTUNITIES ILLIQUID INVESTMENTS SUB-MASTER LP

/s/ ROSE S. SHABET

By: Rose S. Shabet - individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL OPPORTUNITIES GP LLC, on behalf of itself and VIKING GLOBAL OPPORTUNITIES PORTFOLIO GP LLC, and VIKING GLOBAL OPPORTUNITIES ILLIQUID INVESTMENTS SUB-MASTER LP

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