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. 2)¹

Aileron Therapeutics Inc.
(Name of Issuer)
Common Stock, \$0.001 par value per share
(Title of Class of Securities)
00887A204
(CUSIP Number)
December 31, 2023
(Date of Event Which Requires Filing of this Statement)
heck 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 xchange 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 nowever, <i>see</i> the <i>Notes</i>).

1	NAME OF REPORT	TING PERSON	
		y Value Fund, L.P.	
2	CHECK THE APPE	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
	SEC OSE ONEI		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		0	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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	8	SHARED DISPOSITIVE POWER	
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9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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CUSIP No. 00887A204

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1	NAME OF REPOR	RTING PERSON	
		gy Value Fund II, L.P.	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
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4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
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BENEFICIALLY		0	
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1	NAME OF REPOR	TING PERSON	
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12	TYPE OF REPORT	ING PERSON	
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1	NAME OF REPOR	RTING PERSON	
	BVF Partner		
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
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1	NAME OF REPO	RTING PERSON	
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12	TYPE OF REPOR	TING PERSON	
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1	NAME OF BEROR	TIME DEDGOM	
1	NAME OF REPOR	TING PERSON	
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	BVF Partners		
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3	SEC USE ONLY		
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	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
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BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		0	
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12	TYPE OF REPORT	TING PERSON	
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1	NAME OF REPO	RTING PERSON	
	BVF Inc.		
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	
OWNED BY	6	SHARED VOTING POWER	
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REPORTING		0	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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12	TYPE OF REPOR	CTING PERSON	
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1	NAME OF REPO	RTING PERSON	
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2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
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3	SEC USE ONLY		
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NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		0	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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	8	SHARED DISPOSITIVE POWER	
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11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		· /	
	0%		
12	TYPE OF REPOR	TING PERSON	
	IN		
	<u> </u>		

#### Item 1(a). Name of Issuer:

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

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

738 Main Street #398 Waltham, MA 02451

# 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

# CUSIP No. 00887A204

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, \$0.001 par value per share (the "Shares").

# Item 2(e). CUSIP Number:

00887A204

# 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:

# CUSIP No. 00887A204

#### Item 4. Ownership

As of the close of business on December 31, 2023, the Reporting Persons no longer beneficially owned any securities of the Issuer.

#### 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 Shares, check the following [X].

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

Not Applicable.

# 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 January 19, 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: February 14, 2024

By:

/s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF I GP LLC, its general partner

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner By: /s/ Mark N. Lampert

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

BVF I GP LLC
BVF GP HOLDINGS LLC

By: \( \frac{\s/\text{Mark N. Lampert}}{\text{Mark N. Lampert}} \)
Chief Executive Officer

By: \( \frac{\s/\text{Mark N. Lampert}}{\text{Mark N. Lampert}} \)
Chief Executive Officer

Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

BVF PARTNERS L.P.

By: BVF II GP LLC, its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
Chief Executive Officer

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

BVF II GP LLC
BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS OS LTD.

/s/ Mark N. Lampert

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

MARK N. LAMPERT

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