UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

SCHEDULE 13D

(Rule 13d-101)

Information to be Included in Statements Filed Pursuant to § 240.13d-1(a) and Amendments Thereto Filed Pursuant to § 240.13d-2(a)

Under the Securities Exchange Act of 1934 (Amendment No. 2)

ATEA PHARMACEUTICALS, INC.

(Name of Issuer)

Common Stock, \$0.001 par value per share (Title of Class of Securities)

04683R106 (CUSIP Number)

Bain Capital Life Sciences Investors, LLC 200 Clarendon Street Boston, MA 02116 617-516-2000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

September 22, 2021 (Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this
schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See § 240.13d-7 for other parties to whom copies are to be sent.

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, as amended ("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	Names of reporting persons					
	Bain Capital Life Sciences Fund II, L.P.					
2						
	(a) 🗆	(t	b) 🗆			
3	SEC 119	e onl	V			
3	SEC use only					
4	Source	of fu	nds			
WC						
5	Check	if disc	closure of legal proceedings is required pursuant to Item 2(d) or 2(e)			
6		ship o	or place of organization			
	Cayma	n Isla	nds			
	J.	7	Sole voting power			
Nu	mber of		0 shares of Common Stock			
	hares eficially	8	Shared voting power			
ow	ned by		3,178,532 shares of Common Stock			
	each porting	9	Sole dispositive power			
p	erson					
with:		10	0 shares of Common Stock Shared dispositive power			
		10	Shared dispositive power			
			3,178,532 shares of Common Stock			
11	Aggreg	gate ar	nount beneficially owned by each reporting person			
	0.450.5					
12			agregate amount in Row (11) excludes certain shares			
14	CHECK	11 1116	akkiekare amoniit in 170m (11) excitines certain sugres			
13	Percen	t of cl	ass represented by amount in Row (11)			
	3.8%					
14	Type o	f repo	rting person			
	PN					

1	Names of reporting persons					
	BCIP Life Sciences Associates, LP					
2						
	(a)					
3	SEC us	se only	y			
4	Source of funds					
5	Check	if disc	closure of legal proceedings is required pursuant to Item 2(d) or 2(e)			
6		ship o	or place of organization			
	Delaw	oro.				
	Delaw	7	Sole voting power			
NI	b f					
	mber of hares	8	0 shares of Common Stock			
beneficially		Ö	Shared voting power			
	ned by each		387,127 shares of Common Stock			
	porting	9	Sole dispositive power			
person with:			0 shares of Common Stock			
with.		10	Shared dispositive power			
			387,127 shares of Common Stock			
11						
	207 12	7 char	res of Common Stock			
12			aggregate amount in Row (11) excludes certain shares			
10		£1				
13	Percen	ı or cl	ass represented by amount in Row (11)			
	0.5%					
14	4 Type of reporting person					
	PN					

1	Names of reporting persons						
	BCLS II Investco, LP						
2							
	(a) □	(t	b)				
3	SEC use only						
4	Source of funds						
5	Check	if disc	closure of legal proceedings is required pursuant to Item 2(d) or 2(e)				
6		ship o	or place of organization				
	Delaw	are					
	201411	7	Sole voting power				
Nu	mber of		0 shares of Common Stock				
S	hares	8	Shared voting power				
	eficially ned by						
	each	9	250,000 shares of Common Stock				
	porting	9	Sole dispositive power				
	erson with:		0 shares of Common Stock				
		10	Shared dispositive power				
			250,000 shares of Common Stock				
11	Aggreg	gate ar	nount beneficially owned by each reporting person				
	250 00	n char	res of Common Stock				
12			aggregate amount in Row (11) excludes certain shares				
			-00 -01 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
10			11 P (44)				
13	Percen	t ot cl	ass represented by amount in Row (11)				
	0.3%						
14	Type o	f repo	rting person				
	PN						

This Amendment No. 2 relates to the Common Stock of Atea Pharmaceuticals, Inc. and amends the initial statement on Schedule 13D filed by the Reporting Persons on November 12, 2020, as amended by Amendment No. 1 filed on September 3, 2021 (the "Initial Statement" and, as further amended by this Amendment No. 2, the "Schedule 13D"). Capitalized terms used but not defined herein shall have the meanings ascribed to them in the Initial Statement.

Item 5. Interest in Securities of the Issuer

Item 5 of the Initial Statement is hereby amended and restated as follows:

The information set forth in Items 2 and 3 and on the cover pages of this Schedule 13D is incorporated by reference in its entirety into this Item 5.

- (a), (b) As of the date hereof, BCLS II holds 3,178,532 shares of Common Stock, representing approximately 3.8% of the outstanding shares of Common Stock, BCIPLS holds 387,127 shares of Common Stock, representing approximately 0.5% of the outstanding shares of Common Stock, and BCLS II Investco holds 250,000 shares of Common Stock, representing approximately 0.3% of the outstanding shares of Common Stock. As a result of the foregoing and the relationships described in Item 2(a) of this Schedule 13D, the Reporting Persons may be deemed to beneficially own in the aggregate 3,815,659 shares of Common Stock, representing approximately 4.6% of the outstanding shares of Common Stock
 - The percentage of the outstanding shares of Common Stock held by the Reporting Persons is based on 82,776,937 shares of Common Stock outstanding, as reported by the Issuer in its Quarterly Report on Form 10-Q for the quarter ended June 30, 2021, filed with the Securities and Exchange Commission on August 12, 2021.
- (c) On September 20, 2021, BCLS II and BCIPLS sold an aggregate of 12,181 shares of Common Stock at a price of \$30.01 per share pursuant to Rule 144 under the Securities Act of 1933, as amended, for aggregate consideration of \$365,552. In the transaction, BCLS II sold 10,858 shares of Common Stock and BCIPLS sold 1,323 shares of Common Stock.
 - On September 22, 2021, BCLS II and BCIPLS sold an aggregate of 937,819 shares of Common Stock at a weighted average price of \$29.63 per share pursuant to Rule 144 under the Securities Act of 1933, as amended, for aggregate consideration of \$27,791,171. In the transactions, BCLS II sold 835,998 shares of Common Stock and BCIPLS sold 101,821 shares of Common Stock.
- (d) Except as otherwise described in this Item 5, no one other than the Reporting Persons has the right to receive, or the power to direct the receipt of, dividends from, or the proceeds from the sale of, any of the Common Stock beneficially owned by the Reporting Persons as described in this Item 5.
- (e) Following the sale of shares on September 22, 2021 described in Item 5(c) above, the Reporting Persons ceased to beneficially own 5% or more of the Issuer's outstanding shares of Common Stock.

SIGNATURES

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

Dated: September 24, 2021

Bain Capital Life Sciences Fund II, L.P.

By: Bain Capital Life Sciences Investors II, LLC, its general partner

By: Bain Capital Life Sciences Investors, LLC, its manager

By: /s/ Andrew Hack

Name: Andrew Hack Title: Managing Director

BCIP Life Sciences Associates, LP

By: Boylston Coinvestors, LLC, its general partner

By: /s/ Andrew Hack

Name: Andrew Hack Title: Authorized Signatory

BCLS II Investco, LP

By: BCLS II Investco (GP), LLC, its general partner

By: Bain Capital Life Sciences Fund II, L.P., its managing member

By: Bain Capital Life Sciences Investors II, LLC, its general partner

By: Bain Capital Life Sciences Investors, LLC, its manager

By: /s/ Andrew Hack

Name: Andrew Hack Title: Managing Director