Rule 13d-1(b)

227,124

## SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO § 240.13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO § 240.13d-2.

(Amendment No. 2)\*

## Achieve Life Sciences, Inc.

(Name of Issuer)

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

004468500 (CUSIP Number)

December 31, 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(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 the 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 purposes 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).

CUSIP No: 004468500 NAMES OF REPORTING PERSONS (1) CVI Investments, Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (2) (SEE INSTRUCTIONS) (3) SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands NUMBER OF SOLE VOTING POWER 0 SHARES BENEFICIALLY (6) SHARED VOTING POWER \*\* 227 124 OWNED BY **EACH** SOLE DISPOSITIVE POWER REPORTING PERSON WITH SHARED DISPOSITIVE POWER \*\*

(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	227,124		
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	3.7%		
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		
	CO		
** Heights Capital	Management, Inc. is the investment manager to CVI Investments, Inc. and as such may exercise voting and dispositive power over these shares.		
CUSIP No: 004468	500		
(1)	NAMES OF REPORTING PERSONS		
	Heights Capital Management, Inc.		
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		
	(SEE INSTRUCTIONS)	(a)	
		(b)	
(3)	SEC USE ONLY		
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware		
NUMBER OF	(5) SOLE VOTING POWER		
SHARES	0		
BENEFICIALLY	(6) SHARED VOTING POWER **		
OWNED BY	227,124		
EACH	(7) SOLE DISPOSITIVE POWER		
REPORTING	0		
PERSON WITH	(8) SHARED DISPOSITIVE POWER **		
TERSON WITH			
	227,124		
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	227,124		
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
(10)	CHECK BOX II THE MOREOVITE MINORY (7) EXCELOSES CERTAIN STRIKES (SEE INSTRUCTIONS)		
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	3.7%		
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		
(12)	CO		

Item 1			
(a)	Na	me of Issuer	
	A	Achieve Life Sciences, Inc. (the "Company")	
(b)	Ad	dress of Issuer's Principal Executive Offices	
	1	040 West Georgia St., Suite 1030, Vancouver, BC V6E 4H1 Canada	
Item 2	(a). 1	Name of Person Filing	
		is statement is filed by the entities listed below, who are collectively referred to herein as "Reporting Persons," with respect to the shares of common stock of the mpany, \$0.001 par value per share (the "Shares").	
	(i)	CVI Investments, Inc.	
	(ii)	Heights Capital Management, Inc.	
Item 2	(b).	Address of Principal Business Office or, if none, Residence	
	Th	e address of the principal business office of CVI Investments, Inc. is:	
	Ug Son Ge Gra KY Car	D. Box 309GT cland House uth Church Street orge Town and Cayman 71-1104 yman Islands e address of the principal business office of Heights Capital Management, Inc. is:  1 California Street, Suite 3250 in Francisco, California 94111	
Item 2(c). Citizenship			
	Cit	izenship is set forth in Row 4 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person.	
Item 2		Title of Class of Securities	
		mmon stock, \$0.001 par value per share	
Item 2		CUSIP Number	
	004468500		
CUSIP No: 004468500			
Item 3	. ]	If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:	
(a)		Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o).	
(b)		Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c).	
(c)		Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c).	
(d)		Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).	
(e)		An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);	
(f)		An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);	
(g)		A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);	
(h)		A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);	
(i)		A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);	
(j)		A non-U.S. institution in accordance with §240.13d-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 §240.13d-1(b)(1)(ii)(J), please specify the type of institution:			
Item 4		Ownership	

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

The information required by Items 4(a) – (c) is set forth in Rows 5 – 11 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person.

The number of Shares reported as beneficially owned consists of Shares issuable upon the exercise of warrants to purchase Shares.

The Company's Prospectus (Registration Nos. 333-250074 and 333-251088), filed on December 4, 2020, indicates there were 6,088,914 Shares outstanding as of the completion of the offering of the Shares and the full exercise of the underwriter's over-allotment option referred to therein.

Heights Capital Management, Inc., which serves as the investment manager to CVI Investments, Inc., may be deemed to be the beneficial owner of all Shares owned by CVI Investments, Inc. Each of the Reporting Persons hereby disclaims any beneficial ownership of any such Shares, except for their pecuniary interest therein.

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: \Box

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

Not applicable.

CUSIP No: 004468500

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

Not applicable.

Item 8. Identification and Classification of Members of the Group

Not applicable.

Item 9. Notice of Dissolution of Group

Not applicable.

Certification Item 10.

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.

CUSIP No: 004468500

**SIGNATURES** 

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

Dated: February 10, 2021

CVI INVESTMENTS, INC. HEIGHTS CAPITAL MANAGEMENT, INC.

By: Heights Capital Management, Inc. By: /s/ Brian Sopinsky pursuant to a Limited Power of Name: Brian Sopinsky Attorney, a copy of which was previously filed Title: Secretary

/s/ Brian Sopinsky Bv: Name: Brian Sopinsky

Title: Secretary

CUSIP No: 004468500

EXHIBIT INDEX

DESCRIPTION

Limited Power of Attorney\* Joint Filing Agreement\*