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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM S-8  
REGISTRATION STATEMENT  
UNDER THE  
SECURITIES ACT OF 1933**

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**ACHIEVE LIFE SCIENCES, INC.**

(Exact name of Registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

95-4343413  
(I.R.S. Employer  
Identification Number)

1040 West Georgia Street, Suite 1030  
Vancouver, BC V6E 4H1  
(604) 210-2217

(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

**2018 Equity Incentive Plan**  
(Full title of the plan)

**Richard Stewart**  
Chairman and Chief Executive Officer  
Achieve Life Sciences, Inc.  
1040 West Georgia Street, Suite 1030  
Vancouver, BC V6E 4H1  
(604) 210-2217

(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Please send copies of all communications to:*

**Alan Smith, Esq.**  
**Robert Freedman, Esq.**  
**Amanda Rose, Esq.**  
**Fenwick & West LLP**  
1191 Second Avenue, Floor 10  
Seattle, WA 98101  
(206) 389-4510

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Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

#### CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price Per Unit	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, \$0.001 par value				
— To be issued under the 2018 Equity Incentive Plan	1,474,259 (2)	\$0.605(3)	\$891,927	\$115.77

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the “*Securities Act*”), this Registration Statement shall also cover any additional shares of the Registrant’s common stock that become issuable under the Registrant’s 2018 Equity Incentive Plan by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the receipt of consideration that increases the number of the Registrant’s outstanding shares of common stock.
- (2) Represents additional shares of common stock reserved for issuance under the Registrant’s 2018 Equity Incentive Plan as of January 1, 2020.
- (3) Calculated solely for the purposes of this offering under Rules 457(c) and (h) of the Securities Act based on the average of the high and low prices of the Registrant’s common stock as reported on The Nasdaq Capital Market on January 23, 2020.

**EXPLANATORY NOTE**  
**REGISTRATION OF ADDITIONAL SHARES PURSUANT TO GENERAL INSTRUCTION E**

Pursuant to General Instruction E of Form S-8, Achieve Life Sciences, Inc. (the "*Registrant*") is filing this Registration Statement with the Securities and Exchange Commission (the "*Commission*") to register 1,474,259 additional shares of common stock under the Registrant's 2018 Equity Incentive Plan ("*EIP*"), pursuant to the provisions of the EIP providing for an automatic increase in the number of shares reserved for issuance under the EIP on January 1, 2020.

This Registration Statement hereby incorporates by reference the contents of the Registrant's registration statements on Form S-8 filed with the Commission on November 7, 2018 ([Registration No. 333-228253](#)) and May 15, 2019 ([Registration No. 333-231520](#)). In accordance with the instructional note to Part I of Form S-8 as promulgated by the Commission, the information specified by Part I of Form S-8 has been omitted from this Registration Statement.

**PART II**  
**INFORMATION REQUIRED IN THE REGISTRATION STATEMENT**

**Item 3. Incorporation of Documents by Reference.**

The following documents filed by the Registrant with the Commission pursuant to the Securities Act and the Securities Exchange Act of 1934, as amended (the “Exchange Act”) are incorporated herein by reference:

- (a) the Registrant’s [Annual Report on Form 10-K](#) for the fiscal year ended December 31, 2018, filed with the Commission March 14, 2019 pursuant to Section 13 of the Exchange Act;
- (b) all other reports filed pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of the fiscal year covered by the Registrant’s Annual Report referred to in (a) above; and
- (c) the description of the Registrant’s common stock contained in the Company’s Registration Statement on Form 8-A filed with the Commission on September 27, 1995 (paper filing), pursuant to Section 12(b) of the Exchange Act, including any other amendments or reports filed for the purpose of updating such description.

All documents filed by the Registrant pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act subsequent to the filing of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference into this Registration Statement and to be a part hereof from the date of filing such documents, except as to specific sections of such documents as set forth therein. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained in any subsequently filed document which also is deemed to be incorporated by reference herein modifies or supersedes such statement.

**Item 8. Exhibits.**

The following exhibits are filed herewith:

Exhibit Number	Exhibit Description	Incorporated by Reference			Filed Herewith
		Form	File No.	Exhibit	
4.1	<a href="#">Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.1	5/29/2013
4.2	<a href="#">Certificate of Amendment to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.1	5/22/2015
4.3	<a href="#">Certificate of Amendment (Reverse Stock Split) to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.1	8/2/2017
4.4	<a href="#">Certificate of Amendment (Name Change) to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.2	8/2/2017
4.5	<a href="#">Certificate of Amendment (Removal of Cumulative Voting) to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.1	11/1/2017
4.6	<a href="#">Certificate of Amendment (Reverse Stock Split) to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.1	5/23/2018
4.7	<a href="#">Certificate of Amendment (Increase in Authorized Shares) to Second Amended and Restated Certificate of Incorporation</a>	8-K	033-80623	3.2	5/23/2018

4.8	<a href="#">Sixth Amended and Restated Bylaws</a>	8-K	033-80623	3.1	1/5/2017	
4.9	<a href="#">Amendment (Virtual Meeting) to Sixth Amended and Restated Bylaws</a>	10-Q	033-80623	3.1	11/7/2018	
4.10	<a href="#">Form of Registrant's Common Stock certificate</a>	10-Q	000-21243	4.1	11/10/2008	
5.1	<a href="#">Opinion of Fenwick &amp; West LLP</a>					X
23.1	<a href="#">Consent of Fenwick &amp; West LLP (contained in Exhibit 5.1)</a>					X
23.2	<a href="#">Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm</a>					X
24.1	<a href="#">Power of Attorney (included on the signature page to this Registration Statement)</a>					X
99.1	<a href="#">2018 Equity Incentive Plan and forms of award agreements thereunder</a>	10-Q	033-80623	10.1	11/7/2018	

## SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Vancouver, Province of British Columbia, on this 24<sup>th</sup> day of January, 2020.

### ACHIEVE LIFE SCIENCES, INC.

By: /s/ Richard Stewart  
Richard Stewart  
*Chief Executive Officer and Chairman*

## POWER OF ATTORNEY

**KNOW ALL PERSONS BY THESE PRESENTS**, that each person whose signature appears below hereby constitutes and appoints Richard Stewart and John Bencich, and each of them, as his or her true and lawful attorney-in-fact and agent with full power of substitution, for him or her in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement on Form S-8, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully for all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his or her substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities and on the date indicated.

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Richard Stewart</u> Richard Stewart	Chief Executive Officer, Chairman and Director (Principal Executive Officer)	January 24, 2020
<u>/s/ John Bencich</u> John Bencich	Chief Financial Officer (Principal Financial and Accounting Officer)	January 24, 2020
<u>/s/ Anthony Clarke</u> Anthony Clarke	Director	January 24, 2020
<u>/s/ Scott Cormack</u> Scott Cormack	Director	January 24, 2020
<u>/s/ Donald R. Joseph</u> Donald R. Joseph	Director	January 24, 2020
<u>/s/ Martin Mattingly</u> Martin Mattingly	Director	January 24, 2020
<u>/s/ Jay M. Moyes</u> Jay M. Moyes	Director	January 24, 2020
<u>/s/ H. Stewart Parker</u> H. Stewart Parker	Director	January 24, 2020



1191 SECOND AVENUE, 10TH FLOOR SEATTLE, WA 98101  
TEL: 206.389.4510 FAX: 206.389.4511 WWW.FENWICK.COM

January 24, 2020

Achieve Life Sciences, Inc.  
1040 West Georgia Street, Suite 1030,  
Vancouver, B.C. V6E 4H1

Ladies and Gentlemen:

At your request, as your counsel, we have examined the Registration Statement on Form S-8 (the "**Registration Statement**") to be filed by Achieve Life Sciences, Inc., a Delaware corporation (the "**Company**") with the Securities and Exchange Commission (the "**Commission**") on or about January 24, 2020 in connection with the registration under the Securities Act of 1933, as amended (the "**Securities Act**"), of an aggregate of 1,474,259 shares (the "**Shares**") of the Company's Common Stock (the "**Common Stock**"), subject to issuance by the Company upon the exercise or settlement of awards (including awards of stock options, restricted stock, stock bonuses, stock appreciation rights, restricted stock units and/or performance shares) to be granted under the Company's 2018 Equity Incentive Plan (the "**Plan**").

In connection with our opinion, we have examined such matters of fact as we have deemed necessary, which included examination of originals or copies of: the Company's current Certificate of Incorporation and Bylaws, as amended (collectively, the "**Charter Documents**"), the Plan, the Registration Statement and the exhibits thereto; certain corporate proceedings of the Company's Board of Directors (the "**Board**") and the Company's stockholders relating to adoption or approval of the Company Charter Documents, the Plan, the reservation of the Shares for sale and issuance, the filing of the Registration Statement and the registration of the Shares under the Securities Act and documents (including a certificate from the Company's transfer agent) regarding the Company's outstanding and reserved capital stock and other securities and such other documents as we have deemed advisable, and we have examined such questions of law as we have considered necessary.

In our examination of documents for purposes of this opinion, we have assumed, and express no opinion as to, the authenticity and completeness of all documents submitted to us as originals, the genuineness of all signatures on documents reviewed by us, the conformity to originals and the completeness of all documents submitted to us as copies, the legal capacity of all parties executing any documents (other than the Company), the lack of any undisclosed termination or modification or waiver of any document, the absence of any extrinsic agreements or documents that might change or affect the interpretation or terms of documents, and the due authorization, execution and delivery of all documents by each party thereto other than the Company. We have also assumed that any certificates or instruments representing the Shares, when issued, will be executed by the Company by officers of the Company duly authorized to do so. In rendering our opinion, we have also relied upon a Certificate of Good Standing

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dated January 24, 2020 issued by the Delaware Secretary of State with respect to the Company and representations and certifications made to us by the Company, including without limitation representations in a Management Certificate addressed to us that the Company has available a sufficient number of authorized shares of Common Stock that are not currently outstanding or reserved for issuance under other outstanding securities or plans of the Company, to enable the Company to issue and deliver all of the Shares as of the date of this letter.

We render this opinion only with respect to, and we express no opinion herein concerning the application or effect of the laws of any jurisdiction other than, the existing Delaware General Corporation Law now in effect. We express no opinion with respect to the securities or “blue sky” laws of any state.

Based upon, and subject to, the foregoing, it is our opinion that when the 1,474,259 Shares of Common Stock that may be issued and sold by the Company upon the exercise or settlement of awards (including any stock option, restricted stock, stock bonus, stock appreciation right, restricted stock unit or award of performance shares) to be granted under the Plan have been issued and sold by the Company against the Company’s receipt of payment therefor (in an amount and type of consideration not less than the par value per Share) in accordance with the terms (including without limitation payment and authorization provisions) of the Plan and have been duly registered on the books of the transfer agent and registrar for the Shares in the name or on behalf of the holders thereof, such Shares will be validly issued, fully paid and non-assessable.

We consent to the use of this opinion as an exhibit to the Registration Statement and further consent to all references to us, if any, in the Registration Statement, the prospectuses constituting a part thereof and any amendments thereto. We do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission thereunder. This opinion is intended solely for use in connection with issuance and sale of the Shares subject to the Registration Statement and is not to be relied upon for any other purpose. In providing this letter, we are opining only as to the specific legal issues expressly set forth above, and no opinion shall be inferred as to any other matter or matters. This opinion is rendered on, and speaks only as of, the date of this letter first written above, and does not address any potential change in facts or law that may occur after the date of this opinion letter. We assume no obligation to advise you of any fact, circumstance, event or change in the law or the facts that may hereafter be brought to our attention, whether or not such occurrence would affect or modify any of the opinions expressed herein.

Very truly yours,

/s/ Fenwick & West LLP

**FENWICK & WEST LLP**



*Consent of Independent Registered Public Accounting Firm*

We hereby consent to the incorporation by reference in this registration statement on Form S-8 pertaining to the 2018 Equity Incentive Plan of Achieve Life Sciences, Inc. (the "Company") of our report dated March 14, 2019 relating to the consolidated financial statements of the Company which appears in the Company's Annual Report on Form 10-K for the year ended December 31, 2018.

/s/ PricewaterhouseCoopers LLP  
**Chartered Professional Accountants**  
Vancouver, British Columbia, Canada  
January 24, 2020