

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

**FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

Acrivon Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

82-5125532
(I.R.S. Employer
Identification Number)

480 Arsenal Way, Suite 100
Watertown, Massachusetts 02472
(617) 207-8979
(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Peter Blume-Jensen, M.D., Ph.D.
Chief Executive Officer and President
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Approximate date of commencement of proposed sale to the public: From time to time after this registration statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input checked="" type="checkbox"/>

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.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. The selling stockholders named in this prospectus may not sell these securities or accept an offer to buy these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and the selling stockholders named in this prospectus are not soliciting an offer to buy these securities in any state or jurisdiction where such offer or sale is not permitted.

Subject to Completion
Dated April 17, 2024

PROSPECTUS



Up to 15,295,000 Shares of Common Stock Offered by the Selling Stockholders

Acrivon Therapeutics, Inc.

Common Stock

This prospectus relates to the resale, from time to time by the selling stockholders named in this prospectus (the “selling stockholders”) of up to 15,295,000 shares of our common stock, which consist of (i) 8,235,000 shares of our common stock held by the selling stockholders (the “Initial Shares”), and (ii) 7,060,000 shares of our common stock (the “Pre-Funded Warrant Shares”) issuable upon the exercise of pre-funded warrants held by the selling stockholders (the “Pre-Funded Warrants”). The Initial Shares and Pre-Funded Warrant Shares shall be collectively referred to as the “Securities” or the “Shares.”

Our registration of the resale of shares of common stock covered by this prospectus does not mean that the selling stockholders will offer or sell any such shares. The selling stockholders received the Initial Shares and Pre-Funded Warrants from us pursuant to a private placement transaction, which was consummated on April 11, 2024. We are registering the offer and resale of the Securities to satisfy a covenant set forth in the registration rights agreement entered into on April 8, 2024 executed concurrently with a securities purchase agreement as of the same date with respect to the private placement, pursuant to which we agreed to register the resale of the Securities within a limited period of time following the date of the registration rights agreement.

We will not receive any of the proceeds from the sale of our common stock by the selling stockholders, although we will receive proceeds from the nominal exercise price of any Pre-Funded Warrants.

Any shares of our common stock subject to resale hereunder will have been issued by us and received by the selling stockholders prior to any resale of such shares pursuant to this prospectus.

The selling stockholders, or their donees, pledgees, transferees or other successors-in-interest may offer or resell the Shares from time to time through public or private transactions at prevailing market prices, at prices related to prevailing market prices or at privately negotiated prices. The selling stockholders will bear all commissions and discounts and similar selling expenses, if any, attributable to the sale of Shares. We will bear all costs, expenses and fees (other than commissions and discounts and similar selling expenses) in connection with the registration of the Shares. For additional information on the methods of sale that may be used by the selling stockholders, see “Plan of Distribution” beginning on page 12 of this prospectus.

Our common stock is listed on the Nasdaq Global Market under the symbol “ACRV.” On April 17, 2024, the last reported sale price of our common stock was \$[●].

We are an “emerging growth company” and a “smaller reporting company” under federal securities laws and as such, have elected to comply with reduced public company reporting requirements for this prospectus and the documents incorporated by reference herein and may elect to comply with reduced public company reporting requirements in future filings. See “Summary—Implications of Being an Emerging Growth Company and Smaller Reporting Company.”

Investing in our securities involves significant risks. We strongly recommend that you read carefully the risks we describe in this prospectus and in any accompanying prospectus supplement, as well as the risk factors that are incorporated by reference into this prospectus from our filings made with the Securities and Exchange Commission. See “[Risk Factors](#)” on page 6 of this prospectus.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is _____, 2024

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission (the “SEC”), using a “shelf” registration process. The selling stockholders may resell, from time to time, in one or more offerings, shares of our common stock offered by this prospectus. Information about the selling stockholders may change over time. When the selling stockholders sell shares of our common stock under this prospectus, we will, if necessary and required by law, provide a prospectus supplement that will contain specific information about the terms of that offering. Any prospectus supplement may also add to, update, modify or replace information contained in this prospectus. If a prospectus supplement is provided and the description of the offering in the prospectus supplement varies from the information in this prospectus, you should rely on the information in the prospectus supplement. You should carefully read this prospectus and any accompanying prospectus supplement, if any, along with all of the information incorporated by reference herein and therein, before making an investment decision.

You should rely only on the information contained or incorporated by reference in this prospectus and any applicable prospectus supplement. We have not, and the selling stockholders have not, authorized any other person to provide you with different or additional information. If anyone provides you with different or additional information, you should not rely on it. This prospectus is not an offer to sell, nor are the selling stockholders seeking an offer to buy, the shares offered by this prospectus in any jurisdiction where the offer and sale is not permitted. No offers or sales of any of the shares of our common stock are to be made in any jurisdiction in which such an offer or sale is not permitted. You should assume that the information contained in this prospectus or any applicable prospectus supplement is accurate only as of the date on the front cover thereof or the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any applicable prospectus supplement or any sales of the shares of our common stock offered hereby or thereby.

You should read the entire prospectus and any prospectus supplement and any related issuer free writing prospectus, as well as the documents incorporated by reference into this prospectus or any prospectus supplement or any related issuer free writing prospectus, before making an investment decision. Neither the delivery of this prospectus or any prospectus supplement or any issuer free writing prospectus nor any sale made hereunder shall under any circumstances imply that the information contained or incorporated by reference herein or in any prospectus supplement or issuer free writing prospectus, as applicable. You should assume that the information appearing in this prospectus, any prospectus supplement or any document incorporated by reference herein or therein is accurate only as of the date of the applicable documents, regardless of the time of delivery of this prospectus or any sale of securities. Our business, financial condition, results of operation and prospects may have changed since that date.

When we refer to “Acrivon Therapeutics,” “Acrivon,” “we,” “our,” “us” and “Company” in this prospectus, we mean Acrivon Therapeutics, Inc. and, where appropriate, our wholly-owned subsidiaries, unless otherwise specified. When we refer to “you,” we mean the potential holders of the applicable series of securities.

SUMMARY

This summary highlights selected information from this prospectus and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, any applicable prospectus supplement and any related free writing prospectus, including the risks of investing in our securities discussed under the heading “Risk Factors” contained in this prospectus, any applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You should also carefully read the information incorporated by reference into this prospectus, including our consolidated financial statements, and the exhibits to the registration statement of which this prospectus is a part.

Company Overview

Acrivon Therapeutics, Inc. is a clinical stage biopharmaceutical company developing precision oncology medicines that we match to patients whose tumors are predicted to be sensitive to each specific medicine by utilizing our proprietary proteomics-based patient responder identification platform. Recently approved precision oncology treatments, such as kinase inhibitors, have transformed the cancer treatment landscape, and while the therapeutic benefit of these agents has provided significant benefit to patients, these precision oncology treatments unfortunately only address the less than 10% of patients with cancers that harbor certain easily-identifiable genetic mutations. Our approach is designed to overcome the limitations of genomics-based patient selection methods. We do this by using our proprietary precision medicine platform, AP3, to develop our pipeline of oncology drug candidates. Our AP3 platform enables the creation of drug-specific proprietary OncoSignature companion diagnostics that are used to identify the patients most likely to benefit from our drug candidates, which we refer to as patient responders. We are currently advancing our lead candidate, ACR-368, a selective small molecule inhibitor targeting CHK1 and CHK2 with sub single-digit nM and single-digit nM potency, respectively, in a potentially registrational Phase 2 trial across multiple tumor types. We are continuing enrollment and dosing of patients in this multi-center trial based on OncoSignature-predicted sensitivity to ACR-368 in patients with locally advanced or metastatic, recurrent platinum-resistant ovarian cancer, as well as endometrial adenocarcinoma or urothelial cancer, two tumor types predicted to be sensitive to ACR-368 through OncoSignature screening and not previously evaluated in past clinical trials.

In November 2023, we announced initial clinical observations from this ongoing trial. Consistent with the overall favorable tolerability profile previously observed in multiple past single-arm trials conducted at recommended Phase 2 dose (RP2D), drug-related adverse events were primarily hematological, reversible, and manageable. In the limited number of patients evaluated by imaging to date, preliminary evidence of clinical activity was observed in OncoSignature-positive patients across all three tumor types treated with single agent ACR-368 at RP2D. Consistent with AP3-predicted tumor sensitivity to the combination of ACR-368 and low dose gemcitabine (LDG) in OncoSignature-negative patients, early imaging-based evidence of clinical activity across all three tumor types was also observed in patients treated with ACR-368 at RP2D and LDG during the dose escalation phase.

Our ACR-368 OncoSignature test, which has not yet obtained regulatory approval, has been extensively evaluated in preclinical studies, including in two separate, blinded, prospectively-designed studies on pretreatment tumor biopsies collected from patients with ovarian cancer treated with ACR-368 in past Phase 2 clinical trials conducted by Eli Lilly and Company, or Lilly, and at the National Cancer Institute demonstrating robust enrichment of responders through our method. On May 8, 2023, ACR-368 was granted two Fast Track designations from the U.S. Food and Drug Administration, or FDA, for the investigation of ACR-368 monotherapy for patients with OncoSignature-positive platinum-resistant ovarian cancer and endometrial cancer. On November 16, 2023, the FDA granted a Breakthrough Device designation for the ACR-368 OncoSignature assay, a multiplex immunofluorescence assay for the identification of ovarian cancer patients who may benefit from ACR-368 treatment. This designation reflects the FDA’s determination that the device is reasonably

expected to provide for more effective treatment or diagnosis of life-threatening or irreversibly debilitating human disease or conditions.

In addition to ACR-368, Acrivon is also leveraging its proprietary AP3 precision medicine platform for developing its internally-discovered preclinical stage pipeline programs, consisting of its development candidate, ACR-2316, a potentially first-in-class, selective, dual WEE1/PKMYT1 inhibitor which has demonstrated potent single agent activity in preclinical studies compared to clinical-stage benchmark inhibitors and is being rapidly advanced in IND-enabling studies, and additional programs targeting these two critical nodes in the DDR pathways.

Private Placement

On April 8, 2024, we entered into a securities purchase agreement (the “Securities Purchase Agreement”) with certain institutional and accredited investors (each, a “Purchaser” and collectively, the “Purchasers”), pursuant to which we sold and issued to the Purchasers in a private placement (the “Private Placement Offering”) an aggregate of 8,235,000 Initial Shares and Pre-Funded Warrants to purchase up to an aggregate of 7,060,000 of shares of our common stock. The Private Placement Offering closed on April 11, 2024. Aggregate gross proceeds to the Company in respect of the Private Placement Offering were approximately \$130 million, before deducting fees payable to the placement agents and other offering expenses payable by the Company.

The Pre-Funded Warrants are immediately exercisable upon issuance at an exercise price of \$0.001 per share and do not expire.

In connection with the Securities Purchase Agreement, we entered into a registration rights agreement (the “Registration Rights Agreement”). Pursuant to the Registration Rights Agreement and subject to customary conditions, the Purchasers have certain registration rights. The registration statement of which this prospectus is a part relates to the offer and resale of the Initial Shares and the Pre-Funded Warrant Shares underlying the Pre-Funded Warrants issued to the selling stockholders pursuant to the Securities Purchase Agreement to fulfill our contractual obligations under the Registration Rights Agreement.

Implications of Being an Emerging Growth Company and Smaller Reporting Company

The Jumpstart Our Business Startups Act (the “JOBS Act”) was enacted in April 2012 with the intention of encouraging capital formation in the United States and reducing the regulatory burden on newly public companies that qualify as emerging growth companies. We are an “emerging growth company” within the meaning of the JOBS Act. We may take advantage of certain exemptions from various public reporting requirements, including the requirement that we provide more than two years of audited consolidated financial statements and related management’s discussion and analysis of financial condition and results of operations, and that our internal controls over financial reporting be audited by our independent registered public accounting firm pursuant to Section 404 of the Sarbanes-Oxley Act of 2002 (the “Sarbanes-Oxley Act”). In addition, the JOBS Act provides that an “emerging growth company” can delay adopting new or revised accounting standards until those standards apply to private companies. We intend to take advantage of these exemptions until we are no longer an emerging growth company. We have elected to use the extended transition period to enable us to comply with new or revised accounting standards that have different effective dates for public and private companies until the earlier of the date we (1) are no longer an emerging growth company and (2) affirmatively and irrevocably opt out of the extended transition period provided in the JOBS Act. As a result, our consolidated financial statements may not be comparable to companies that comply with new or revised accounting pronouncements as of public company effective dates.

We will cease to be an emerging growth company upon the earliest of (1) the end of the fiscal year following the fifth anniversary of our initial public offering; (2) the last day of the fiscal year during which our annual gross

revenues are \$1.235 billion or more; (3) the date on which we have, during the previous three-year period, issued more than \$1.0 billion in non-convertible debt securities; and (4) the end of any fiscal year in which the market value of our common stock held by non-affiliates exceeded \$700.0 million as of the end of the second quarter of that fiscal year.

Additionally, we are a “smaller reporting company meaning that the market value of our stock held by non-affiliates plus the proposed aggregate amount of gross proceeds to us as a result of this offering is less than \$700 million and our annual revenue was less than \$100 million during the most recently completed fiscal year. Smaller reporting companies may take advantage of certain reduced disclosure obligations, including, among other things, providing only two years of audited financial statements in our Annual Report on Form 10-K, and, similar to emerging growth companies, smaller reporting companies have reduced disclosure obligations regarding executive compensation. We will remain a smaller reporting company until the last day of the fiscal year in which (i) the market value of our common stocks held by non-affiliates exceeds \$250 million as of the end of that year’s second fiscal quarter and our annual revenue exceeds \$100 million during such completed fiscal year, or (ii) the market value of our common stock held by non-affiliates exceeds \$700 million, regardless of our annual revenue, as of the end of that year’s second fiscal quarter. To the extent we take advantage of such reduced disclosure obligations, it may also make comparison of our consolidated financial statements with other public companies difficult or impossible.

Corporate Information

We were incorporated under the laws of the State of Delaware in March 2018. Our principal executive offices are located at 480 Arsenal Way, Suite 100, Watertown, Massachusetts 02472 and our telephone number is (617) 207-8979. Our website address is www.acrivot.com. Additionally, our filings with the SEC are posted on our website at www.acrivot.com. We have included our website in this prospectus solely as an inactive textual reference. The information found on or accessible through our website is not part of this or any other report we file with or furnish to the SEC. The public can also obtain copies of these filings by accessing the SEC’s website at www.sec.gov.

The Offering

Common stock offered by us	None.
Common stock offered by the selling stockholders	Up to 15,295,000 shares of our common stock, par value \$0.001 per share, which consist of (i) 8,235,000 shares of our common stock held by the selling stockholders and (ii) 7,060,000 shares of our common stock issuable upon the exercise of the Pre-Funded Warrants held by the selling stockholders.
Common stock currently outstanding	30,874,113 (as of April 11, 2024)
The Pre-Funded Warrants	The Pre-Funded Warrants are immediately exercisable upon issuance at an exercise price of \$0.001 per share and do not expire.
Selling stockholders	All of the shares of our common stock are being offered by the selling stockholders. See “Selling Stockholders” on beginning on page 9 for additional information on the selling stockholders.

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Use of Proceeds	We will not receive any proceeds from the sale of the shares in this offering by the selling stockholders, although we will receive proceeds from the nominal exercise price of any Pre-Funded Warrants. See “Use of Proceeds” beginning on page 8 for additional information on the use of proceeds.
Plan of Distribution	The selling stockholders, or their pledgees, donees, transferees, distributees, beneficiaries or other successors-in-interest, may offer or sell the shares of our common stock offered under this prospectus from time to time through public or private transactions at our prevailing market prices, at prices related to prevailing market prices or at privately negotiated prices. The selling stockholders may also resell the shares of our common stock offered under this prospectus to or through underwriters, broker-dealers or agents, who may receive compensation in the form of discounts, concessions or commissions. See “Plan of Distribution” beginning on page 12 for additional information on the methods of sale that may be used by the selling stockholders.
Risk Factors	Investing in our securities involves risk. You should carefully read and consider the information beginning on page 5 of this prospectus set forth under the heading “Risk Factors” and all other information set forth in this prospectus and the documents incorporated herein and therein by reference before deciding to invest in our common stock.
Nasdaq symbol for common stock	“ACRV”

RISK FACTORS

Investing in our securities involves risk. You should carefully consider the specific risks discussed or incorporated by reference into this prospectus and any applicable prospectus supplement, together with all the other information contained in or incorporated by reference into this prospectus and any applicable prospectus supplement. You should also consider the risks, uncertainties and assumptions discussed under the caption “Risk Factors” included in our Annual Report on Form 10-K for the year ended December 31, 2023, which is incorporated by reference into this prospectus. These risk factors may be amended, supplemented or superseded from time to time by other reports we file with the SEC in the future or by a prospectus supplement relating to a particular offering of our securities. These risks and uncertainties are not the only risks and uncertainties we face. Additional risks and uncertainties not presently known to us, or that we currently view as immaterial, may also impair our business. If any of the risks or uncertainties described in our SEC filings or any prospectus supplement or any additional risks and uncertainties actually occur, our business, financial condition and results of operations could be materially and adversely affected. In that case, the trading price of our securities could decline and you might lose all or part of your investment.

The sale of a substantial number of shares of our common stock in the public market, including resale of the Securities issued or issuable to the selling stockholders, could adversely affect the prevailing market price for our common stock.

We are registering for resale up to 15,295,000 shares of our common stock consisting of Initial Shares and Pre-Funded Warrant Shares underlying the Pre-Funded Warrants issued to the selling stockholders pursuant to the Securities Purchase Agreement to fulfill our contractual obligations under the Registration Rights Agreement. Sales of substantial amounts of shares of our common stock in the public market, or the perception that such sales might occur, could adversely affect the market price of our common stock. We cannot predict if and when the selling stockholders may sell such shares in the public markets. Furthermore, in the future, we may issue additional shares of our common stock or other equity or debt securities exercisable for, or convertible into, shares of our common stock. Any such issuances could result in substantial dilution to our existing stockholders and could cause our stock price to decline.

FORWARD-LOOKING STATEMENTS

This prospectus contains and incorporates by reference “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995 about us and our industry that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this prospectus, including statements regarding our future results of operations or financial condition, business strategy and plans and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements because they contain words such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “target,” “will,” or “would” or the negative of these words or other similar terms or expressions. These forward-looking statements include, but are not limited to, statements about the following:

- the timing, progress and results of our preclinical studies and clinical trials of our drug candidates, including statements regarding the timing of initiation and completion of studies or trials and related preparatory work, the period during which the results of the trials will become available and our research and development programs;
- the timing of any Investigational New Drug submissions, initiation of clinical trials and timing of expected clinical results for our lead drug candidate, ACR-368, ACR-2316, and our other future drug candidates;
- the timing of any submission of filings for regulatory approval of, and our ability to obtain and maintain regulatory approvals for, ACR-368, ACR-2316, and any other drug candidates for any indication;
- our ability to identify patients with the cancers treated by our drug candidates, and to enroll patients in trials;
- our expectations regarding the size of the patient populations, market acceptance and opportunity for and clinical utility of our drug candidates, if approved for commercial use;
- our manufacturing capabilities and strategy, including the scalability and commercial viability of our manufacturing methods and processes;
- our expectations regarding the scope of any approved indication for ACR-368, ACR-2316, or any other drug candidate;
- our ability to successfully commercialize our drug candidates;
- our ability to leverage our proprietary precision medicine platform, AP3, to identify and develop future drug candidates;
- our estimates of our expenses, ongoing losses, future revenue, capital requirements and our need for or ability to obtain additional funding before we can expect to generate any revenue from drug sales;
- our ability to establish or maintain collaborations or strategic relationships;
- our ability to identify, recruit and retain key personnel;
- our reliance upon intellectual property licensed from third parties and our ability to obtain such licenses on commercially reasonable terms or at all;
- our ability to protect and enforce our intellectual property position for our drug candidates, and the scope of such protection;
- our financial performance;
- our use of proceeds from our initial public offering and the concurrent private placement;
- our competitive position and the development of and projections relating to our competitors or our industry;

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- our estimates regarding future revenue, expenses and needs for additional financing;
- the impact of laws and regulations; and
- our expectations regarding the time during which we will be an emerging growth company under the JOBS Act.

You should not rely on forward-looking statements as predictions of future events. We have based the forward-looking statements contained in this prospectus primarily on our current expectations and projections about future events and trends that we believe may affect our business, financial condition, and results of operations. The outcome of the events described in these forward-looking statements is subject to risks and uncertainties, including the risks described under “Risk Factors” and elsewhere in this prospectus and any related free writing prospectus, and in any other documents incorporated herein or therein (including in our most recent Annual Report on Form 10-K, subsequent Quarterly Reports on Form 10-Q and other filings we make with the SEC pursuant to Section 13(a), 13(c), 14, or 15(d) of the Exchange Act). New risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this prospectus. The results, events, and circumstances reflected in the forward-looking statements may not be achieved or occur, and actual results, events, or circumstances could differ materially from those described in the forward-looking statements.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based on information available to us as of the date of this prospectus. While we believe that such information provides a reasonable basis for these statements, that information may be limited or incomplete. Our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all relevant information. These statements are inherently uncertain, and investors are cautioned not to unduly rely on these statements.

The forward-looking statements contained in this prospectus relate only to events as of the date on which the statements are made. We undertake no obligation to update any forward-looking statements made in this prospectus or to reflect new information or the occurrence of unanticipated events, except as required by applicable law. We may not actually achieve the plans, intentions or expectations disclosed in or expressed by, and you should not place undue reliance on, our forward-looking statements. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures, or investments.

You should read this prospectus, the applicable prospectus supplement and the documents that we reference in this prospectus and have filed as exhibits to the registration statement, of which this prospectus is a part, completely and with the understanding that our actual future results may be materially different from what we expect. We qualify all of our forward-looking statements by the foregoing cautionary statements.

USE OF PROCEEDS

We will not receive any proceeds from the sale of Initial Shares or Pre-Funded Warrant Shares by the selling stockholders.

We may receive proceeds from the nominal exercise price of the Pre-Funded Warrants which, if exercised in full, would result in gross proceeds to us of approximately \$7,060. There can be no assurance that any of the Pre-Funded Warrants will be exercised.

We intend to use the net proceeds from any exercise of the Pre-Funded Warrants for working capital and general corporate purposes.

SELLING STOCKHOLDERS

The resale of shares of common stock being offered by the selling stockholders, consisting of Initial Shares and Pre-Funded Warrant Shares underlying the Pre-Funded Warrants, in each case issued to the selling stockholders pursuant to the Securities Purchase Agreement, is being registered hereby to fulfill our contractual obligations under the Registration Rights Agreement. See “Summary—Private Placement.”

The following table sets forth the number and percentage of shares of our common stock beneficially owned by the selling stockholders as of April 11, 2024, taking into account the number of shares that may be offered under this prospectus and the number and percentage of our common stock beneficially owned by the selling stockholders assuming all of the shares offered under this prospectus are sold. Beneficial ownership is determined in accordance with the rules of the SEC and includes voting or investment power with respect to shares of our common stock. Generally, a person “beneficially owns” shares of our common stock if the person has or shares with others the right to vote those shares or to dispose of them, or if the person has the right to acquire voting or disposition rights within 60 days.

All information contained in the table below and the footnotes thereto is based upon information provided to us by the selling stockholders. The information in the table below and the footnotes thereto regarding shares of our common stock to be beneficially owned after the offering under this prospectus assumes the sale of all shares of our common stock being offered by the selling stockholders under this prospectus. The percentage of shares of our common stock owned is based on 30,874,113 shares of our common stock issued and outstanding as of April 11, 2024. Unless otherwise indicated in the footnotes to this table, we believe that the selling stockholders have sole voting and investment power with respect to the shares of our common stock indicated as beneficially owned.

As used in this prospectus, the term “selling stockholder” includes the selling stockholders named below and any donees, pledgees, transferees or other successors-in-interest selling shares of our common stock received after the date of this prospectus from the selling stockholders as a gift, pledge, or other non-sale related transfer.

The number of shares in the column “Maximum Number of Shares of Common Stock Offered” represents all of the shares of our common stock that the selling stockholders may offer under this prospectus, without giving effect to the Beneficial Ownership Limitation (as defined below). The columns captioned “Ownership After Offering” assume the sale of all of the shares of our common stock offered by the selling stockholders under this prospectus and that the selling stockholder does not acquire any additional shares of our common stock before the completion of the offering under this prospectus, other than through the exercise of the Pre-Funded Warrants. However, because the selling stockholders may sell all, some or none of the shares offered under this prospectus from time to time, or in another permitted manner, we cannot assure you as to the actual number of shares of our common stock that will be sold by the selling stockholders or that will be held by the selling stockholders after completion of any sales. The selling stockholders may sell some, all or none of the shares of our common stock offered under this prospectus. We do not know how long the selling stockholders will hold the Initial Shares or Pre-Funded Warrants, whether any will exercise the Pre-Funded Warrants, and upon such exercise, how long such selling stockholders will hold the shares of common stock before selling them, and we currently have no agreements, arrangements or understandings with the selling stockholders regarding the sale of any of the shares of common stock.

Under the terms of the Pre-Funded Warrants, the selling stockholders that hold Pre-Funded Warrants may not exercise the Pre-Funded Warrants to the extent such exercise would cause such selling stockholder, together with its affiliates and attribution parties, to beneficially own a number of shares of common stock which would exceed 4.99% of the number of shares of our common stock outstanding following such exercise (for purposes of the denominator, immediately after giving effect to the issuance of shares of common stock to be issued upon the applicable exercise of such Pre-Funded Warrants) (the “Beneficial Ownership Limitation”). The holders of Pre-Funded Warrants may increase or decrease such percentage not in excess of 19.99%, in the case of an

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increase, by providing us at least 61 days' prior notice. The columns in the table below do not reflect or give effect to the Beneficial Ownership Limitation.

Selling Stockholder	Ownership Before Offering			Ownership After Offering		
	Number of Shares of Common Stock Beneficially Owned	Percentage of Shares of Common Stock Beneficially Owned	Maximum Number of Shares of Common Stock Offered	Number of Shares of Common Stock Beneficially Owned	Percentage of Shares of Common Stock Beneficially Owned	
RA Capital Management, L.P. and Affiliates ⁽¹⁾	8,359,102,	27.1%	3,530,000	4,829,102	15.6%	
Baker Bros. Advisors LP and Affiliates ⁽²⁾	7,112,885	18.7%	7,060,000	52,885	*	
Perceptive Life Sciences Master Fund Ltd. ⁽³⁾	5,360,858	17.4%	2,353,000	3,007,858	9.7%	
Sands Capital Life Sciences Pulse Fund II, L.P. ⁽⁴⁾	2,122,605	6.9%	470,000	1,652,605	5.4%	
Citadel CEMF Investments Ltd. ⁽⁵⁾	470,000	1.5%	470,000	—	*	
Paradigm BioCapital Advisors LP and Affiliates ⁽⁶⁾	1,177,000	3.8%	1,177,000	—	*	
Acorn Bioventures, L.P. ⁽⁷⁾	448,151	1.5%	235,000	213,151	*	

* Indicates beneficial ownership of less than 1% of the outstanding shares of our common stock.

- (1) Consists of (i) 7,914,206 shares of common stock held by RA Capital Healthcare Fund, L.P. (“RA Healthcare”); (ii) 426,302 shares of Common Stock held by the RA Capital Nexus Fund II, L.P. (the “Nexus Fund II”); (iii) a total of 16,638 vested stock options (right to buy) held by Derek DiRocco, a member of our board of directors, for the benefit of RA Capital Management, L.P. (“RA Capital”); and (iv) 1,956 stock options (right to buy) which shall vest within 60 days of April 11, 2024. RA Capital is the investment manager for RA Healthcare and Nexus II. The general partner of RA Capital is RA Capital Management GP, LLC (“RA Capital GP”), of which Peter Kolchinsky and Rajeev Shah are the managing members. RA Capital, RA Capital GP, Peter Kolchinsky and Rajeev Shah may be deemed to have shared voting and investment power with respect to the shares held by RA Healthcare and Nexus II. RA Capital, RA Capital GP, Mr. Kolchinsky and Mr. Shah disclaim beneficial ownership of such securities, except to the extent of any pecuniary interest therein. The address of all entities and individuals referenced in this footnote is 200 Berkeley Street, 18th Floor, Boston, Massachusetts 02116.
- (2) Consists of (i) 4,267 shares of common stock held by 667, L.P., (“667”), (ii) 599,789 shares of common stock underlying pre-funded warrants held by 667, (iii) 48,618 shares of common stock held by Baker Brothers Life Sciences, L.P. (“Baker Brothers Life Sciences,” and, together with 667, the “Baker Funds”) and (iv) 6,460,211 shares of common stock underlying pre-funded warrants held by Baker Brothers Life Sciences. These pre-funded warrants are subject to the Beneficial Ownership Limitation, however the number of shares reported under “Number of Shares of Common Stock Beneficially Owned” and “Maximum Number of Shares of Common Stock Offered” does not give effect to the Beneficial Ownership Limitation. Baker Bros. Advisors LP, (“BBA”) is the management company and investment advisor to Baker Brothers Life Sciences and 667 and has sole voting and investment power with respect to the securities held by Baker Brothers Life Sciences and 667. Baker Bros. Advisors (GP) LLC (the “BBA GP”) is the sole general partner of BBA. Julian C. Baker and Felix J. Baker are the managing members of BBA GP. Julian C. Baker, Felix J. Baker, the BBA GP and BBA may be deemed to be beneficial owners of the securities held by Baker Brothers Life Sciences and 667. Julian C. Baker, Felix J. Baker, the BBA GP and BBA disclaim beneficial ownership of all securities held by Baker Brothers Life Sciences and 667, except to the extent of their direct or indirect pecuniary interest therein. The address for each of Julian C. Baker, Felix J. Baker, the BBA GP, BBA and the Baker Funds is c/o Baker Bros. Advisors LP, 860 Washington Street, 3rd Floor, New York, NY 10014.
- (3) Consists of 5,360,858 shares of common stock held by Perceptive Life Sciences Master Fund, Ltd. (the “Master Fund”). Perceptive Advisors LLC (“Perceptive Advisors”) as the investment manager to the Master Fund and may be deemed to beneficially own such shares. Joseph Edelman is the managing member of Perceptive Advisors and may be deemed to beneficially own such shares. The address for Perceptive Advisors is 51 Astor Place, 10th Floor, New York, NY 10003.

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- (4) Consists of 2,122,605 shares of common stock held by Sands Capital Life Sciences Pulse Fund II, L.P. (“Sands Pulse Fund II”). Sands Capital Life Sciences Pulse Fund II-GP, L.P. (“Sands Pulse GP L.P.”) is the general partner of Sands Pulse Fund II. Sands Capital Life Sciences Pulse Fund II-GP, LLC (“Sands Pulse II GP L.P.” and, together with Sands Pulse GP L.P., the “Sands General Partners”) is the general partner of Sands Pulse GP L.P. Sands Capital Ventures, LLC (“SCV”) is the investment manager of Sands Pulse Fund II and thus may be deemed to beneficially own the shares held by Sands Pulse Fund II. Frank M. Sands holds ultimate voting and investment power over securities held by Sands Pulse Fund II, and thus may be deemed to beneficially own the shares held by Sands Pulse Fund II. The address of all entities and the individual referenced in this footnote is 1000 Wilson Boulevard, Suite 3000, Arlington, VA 22209.
- (5) Consists of 470,000 shares of common stock held by Citadel CEMF Investments Ltd. Citadel Advisors LLC (“Citadel Advisors”) is the portfolio manager for Citadel CEMF Investments Ltd. Citadel Advisors Holdings LP (“CAH”) is the sole member of Citadel Advisors. Citadel GP LLC (“CGP”) is the general partner of CAH. Kenneth Griffin owns a controlling interest in CGP. Mr. Griffin, as the owner of a controlling interest in CGP, may be deemed to have shared power to vote or direct the vote of, and/or shared power to dispose or to direct the disposition over, the securities represented above. This response is not and shall not be construed as an admission that Mr. Griffin or any of the Citadel related entities listed above is the beneficial owner of any securities of the Company other than the securities actually owned by such person (if any). The address of Citadel CEMF Investments Ltd. is c/o Citadel Enterprise Americas LLC, Southeast Financial Center, 200 S. Biscayne Blvd., Suite 3300, Miami, FL 33131.
- (6) Consists of (i) 1,008,566 shares of common stock held by Paradigm BioCapital International Fund Ltd. (“Paradigm Fund”); and (ii) 168,434 shares of common stock held by Paradigm BioCapital Advisors LP (“Paradigm Advisor”), as discretionary investment manager on behalf of a separate account client solely with respect to the assets for which Paradigm Advisor acts as its investment manager (the “Separate Account”). The shares may be deemed to be indirectly beneficially owned by each of Paradigm Advisor, Paradigm BioCapital Advisors GP LLC (“Paradigm Advisor GP”), and Senai Asefaw, M.D. Paradigm Advisor GP is the general partner of Paradigm Advisor, and Senai Asefaw, M.D. is the managing member of Paradigm Advisor GP. Paradigm Advisor is the investment manager of Paradigm Fund. Paradigm Advisor, Paradigm Advisor GP, and Senai Asefaw, M.D. may be deemed to have full investment and voting discretion over the shares held by Paradigm Fund and the Separate Account. The business address for each person and entity named in this footnote is 767 Third Avenue, 17th Floor, New York, NY 10017.
- (7) The business address of Acorn Bioventures, L.P. is 420 Lexington Avenue, Suite 2626, New York, NY 10170.

PLAN OF DISTRIBUTION

The selling stockholders, including their pledgees, donees, transferees, distributees, beneficiaries or other successors in interest, may from time to time offer some or all of the shares of our common stock offered under this prospectus. We will not receive any of the proceeds from the sale of the shares of our common stock offered under this prospectus by the selling stockholders. We will bear all fees and expenses incident to our obligation to register the shares of our common stock offered under this prospectus.

The selling stockholders may sell all or a portion of the shares of our common stock beneficially owned by them and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents (it being understood the selling stockholders shall not be deemed to be underwriters solely as a result of their participation in this offering). If the shares of our common stock are sold through underwriters or broker-dealers, the selling stockholders will be responsible for underwriting discounts or commissions or agent's commissions. The shares of our common stock may be sold on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale, in the over-the-counter market or in transactions otherwise than on these exchanges or systems or in the over-the-counter market and in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at privately negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions.

The selling stockholders may use any one or more of the following methods when disposing of shares of our common stock or interests therein:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell shares of our common stock as agent, but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an over-the-counter distribution;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales effected after the effective date of the registration statement of which this prospectus forms a part;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share;
- through the distribution of the shares by any selling securityholder to its partners, members or stockholders;
- by pledge to secured debts and other obligations or any transfer upon the foreclosure under such pledge;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

The selling stockholders may, from time to time, pledge or grant a security interest in some or all of the shares of our common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of our common stock, from time to time, under this prospectus, or under an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the

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Securities Act amending the list of selling stockholders to include the pledgee, transferee, or other successors in interest as selling stockholder under this prospectus. The selling stockholders also may transfer the shares of our common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

In connection with the sale of shares of our common stock or interests therein, the selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of shares of our common stock in the course of hedging the positions they assume. The selling stockholders may also sell shares of our common stock short and deliver these securities to close out its short positions, or loan or pledge the shares of our common stock to broker-dealers that in turn may sell these securities. The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares of our common stock offered under this prospectus, which shares of our common stock such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

Broker-dealers engaged by the selling stockholders may arrange for other broker-dealers to participate in sales. If the selling stockholders effect certain transactions by selling shares of our common stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the selling stockholders or commissions from purchasers of the shares of our common stock for whom they may act as agent or to whom they may sell as principal. Such commissions will be in amounts to be negotiated, but, except as set forth in a supplement to this prospectus, in the case of an agency transaction will not be in excess of a customary brokerage commission in compliance with applicable rules of the Financial Industry Regulatory Authority, Inc. ("FINRA"); and in the case of a principal transaction a markup or markdown in compliance with applicable FINRA rules.

The aggregate proceeds to the selling stockholders from the sale of the shares of our common stock offered under this prospectus will be the purchase price of the shares of common stock less discounts or commissions, if any. The selling stockholders reserve the right to accept and, together with their agents from time to time, to reject, in whole or in part, any proposed purchase of shares of our common stock to be made directly or through agents. We will not receive any of the proceeds from the offering of common stock under this prospectus.

The selling stockholders also may resell all or a portion of the shares of our common stock offered under this prospectus in open market transactions in reliance upon Rule 144 under the Securities Act, provided that they meet the criteria and conforms to the requirements of that rule.

The selling stockholders and any underwriters, broker-dealers or agents that participate in the sale of the shares of our common stock or interests therein may be deemed to be "underwriters" within the meaning of Section 2(a)(11) of the Securities Act (it being understood that the selling stockholders shall not be deemed to be underwriters solely as a result of their participation in this offering). Any discounts, commissions, concessions or profit they earn on any resale of the shares of our common stock may be underwriting discounts and commissions under the Securities Act. Each selling stockholder has informed us that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the securities. The selling stockholders are subject to the prospectus delivery requirements of the Securities Act.

To the extent required pursuant to Rule 424(b) under the Securities Act, the shares of our common stock to be sold, the name of the selling stockholders, the purchase price and public offering price, the names of any agents, dealer or underwriter, and any applicable commissions or discounts with respect to a particular offer will be set forth in an accompanying prospectus supplement or, if appropriate, a post-effective amendment to the registration statement that includes this prospectus.

We have agreed to keep this prospectus effective until the earliest to occur of the following events: (i) the date on which the selling stockholders shall have resold or otherwise disposed of all the Securities covered hereby; and

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(ii) the date on which the Securities no longer constitute “Registrable Securities” as such term is defined in the Registration Rights Agreement, such that they may be resold by the selling stockholders without registration and without regard to any volume or manner-of-sale limitations and without current public information pursuant to Rule 144. In order to comply with the securities laws of some states, if applicable, the shares of our common stock may be sold in these jurisdictions only through registered or licensed brokers or dealers. In addition, in some states the shares of our common stock may not be sold unless the shares been registered or qualified for sale or an exemption from registration or qualification requirements is available and is complied with.

The selling stockholders and any other person participating in a sale of shares of our common stock registered under this prospectus will be subject to applicable provisions of the Exchange Act, and the rules and regulations thereunder, including, without limitation, to the extent applicable, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of our common stock by the selling stockholders and any other participating person. All of the foregoing may affect the marketability of the shares of our common stock and the ability of any person or entity to engage in market-making activities with respect to the shares of our common stock. In addition, we will make copies of this prospectus (as it may be supplemented or amended from time to time) available to the selling stockholders for the purpose of satisfying the prospectus delivery requirements of the Securities Act. The selling stockholders may indemnify any broker-dealer that participates in transactions involving the sale of the shares of our common stock against certain liabilities, including liabilities arising under the Securities Act.

LEGAL MATTERS

The validity of the securities being offered hereby will be passed upon for us by Sidley Austin LLP, New York, New York.

EXPERTS

The financial statements incorporated in this Prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2023 have been so incorporated in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-3 under the Securities Act of 1933, as amended (the “Securities Act”), with respect to the securities offered by this prospectus and any applicable prospectus supplement. This prospectus and any applicable prospectus supplement do not contain all of the information set forth in the registration statement and its exhibits and schedules in accordance with SEC rules and regulations. For further information with respect to us and the securities being offered by this prospectus and any applicable prospectus supplement, you should read the registration statement, including its exhibits and schedules. Statements contained in this prospectus and any applicable prospectus supplement, including documents that we have incorporated by reference, as to the contents of any contract or other document referred to are not necessarily complete, and, with respect to any contract or other document filed as an exhibit to the registration statement or any other such document, each such statement is qualified in all respects by reference to the corresponding exhibit. You should review the complete contract or other document to evaluate these statements. You may obtain copies of the registration statement and its exhibits via the SEC’s website at <http://www.sec.gov>.

We file annual, quarterly and current reports, proxy statements and other documents with the SEC under the U.S. Securities Exchange Act of 1934, as amended (the “Exchange Act”). The SEC maintains a website that contains reports, proxy and information statements and other information regarding issuers, including us, that file electronically with the SEC. You may obtain documents that we file with the SEC at <http://www.sec.gov>. We also make these documents available on our website at www.acrivon.com. Our website and the information contained or accessible through our website is not incorporated by reference in this prospectus or any prospectus supplement, and you should not consider it part of this prospectus or any prospectus supplement.

INFORMATION INCORPORATED BY REFERENCE

SEC rules permit us to incorporate information by reference in this prospectus and any applicable prospectus supplement. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be part of this prospectus and any applicable prospectus supplement, except for information superseded by information contained in this prospectus or any applicable prospectus supplement itself or in any subsequently filed incorporated document. This prospectus and any applicable prospectus supplement incorporate by reference the documents set forth below that we have previously filed with the SEC (Commission File No. 001-41551), other than information in such documents that is deemed to be furnished and not filed. These documents contain important information about us and our business and financial condition.

- Annual Report on [Form 10-K](#) for the year ended December 31, 2023, filed with the SEC on March 28, 2024;
- Our Current Reports on Form 8-K filed on [April 9, 2024](#) (Items 1.01 and 3.02), [March 4, 2024](#) (Item 5.02 only) and [February 8, 2024](#) (Item 5.02 only); and
- The description of our common stock contained in our Registration Statement on [Form 8-A](#), filed with the SEC on November 7, 2022, and any other amendment or report filed for the purpose of updating such description.

All documents that we file (but not those that we furnish) pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act, after the date of the initial registration statement of which this prospectus is a part and prior to the effectiveness of the registration statement shall be deemed to be incorporated by reference into this prospectus and will automatically update and supersede the information in this prospectus and any previously filed documents. All documents that we file (but not those that we furnish) pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act on or after the date of this prospectus and prior to the termination of the offering of any of the securities covered under this prospectus shall be deemed to be incorporated by reference into this prospectus and will automatically update and supersede the information in this prospectus, any applicable prospectus supplement and any previously filed documents.

Any statement contained herein or in a document incorporated or deemed to be incorporated by reference in this prospectus or any applicable prospectus supplement shall be deemed to be modified or superseded for purposes of this prospectus and such applicable prospectus supplement to the extent that a statement contained in this prospectus or such applicable prospectus supplement, or in any other subsequently filed document which also is or is deemed to be incorporated by reference in this prospectus and such applicable prospectus supplement, modifies or supersedes such earlier statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus or such applicable prospectus supplement.

You can obtain any of the filings incorporated by reference into this prospectus or any applicable prospectus supplement through us or from the SEC through the SEC's website at <http://www.sec.gov>. Upon written or oral request, we will provide, without charge, a copy of any or all of the reports and documents referred to above which have been incorporated by reference into this prospectus or any applicable prospectus supplement. Prospective investors may obtain documents incorporated by reference in this prospectus or any applicable prospectus supplement by requesting them in writing or by telephone from us at our executive offices at:

Acrivon Therapeutics, Inc.
480 Arsenal Way, Suite 100
Watertown, Massachusetts 02742
(617) 207-8979

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Our reports and documents incorporated by reference herein may also be found in the “Investors” section of our website at www.acrivos.com. The content of our website and any information that is linked to or accessible from our website (other than our filings with the SEC that are incorporated by reference, as set forth under “Incorporation of Certain Documents by Reference”) is not incorporated by reference into this prospectus or any applicable prospectus supplement and you should not consider it a part of this prospectus, any applicable prospectus supplement, or the registration statement.

Up to 15,295,000 Shares of Common Stock Offered by the Selling Stockholders



PROSPECTUS

, 2024

We have not authorized any dealer, salesperson or other person to give any information or represent anything not contained in this prospectus. You must not rely on any unauthorized information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus does not offer to sell any securities in any jurisdiction where it is unlawful. Neither the delivery of this prospectus, nor any sale made hereunder, shall create any implication that the information in this prospectus is correct after the date hereof.

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS****Item 14. Other Expenses of Issuance and Distribution.**

The fees and expenses payable by us in connection with this registration statement are estimated as follows:

SEC Registration Fee	\$ 22,011
Accounting Fees and Expenses	20,000
Legal Fees and Expenses	50,000
Miscellaneous Fees and Expenses	7,989
Total	\$ 100,000

Item 15. Indemnification of Directors and Officers.

Section 102 of the Delaware General Corporation Law permits a corporation to eliminate the personal liability of its directors for monetary damages for a breach of fiduciary duty as a director, except where the director breached his or her duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. Our certificate of incorporation provides that none of our directors shall be personally liable to us or our stockholders for monetary damages for any breach of fiduciary duty as a director, notwithstanding any provision of law imposing such liability, except to the extent that the Delaware General Corporation Law prohibits the elimination or limitation of liability of directors for breaches of fiduciary duty

Section 145 of the Delaware General Corporation Law provides that a corporation has the power to indemnify a director, officer, employee, or agent of the corporation and certain other persons serving at the request of the corporation in related capacities against expenses (including attorneys' fees), judgments, fines and amounts paid in settlements actually and reasonably incurred by the person in connection with an action, suit or proceeding to which he or she is or is threatened to be made a party by reason of such position, if such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful, except that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or other adjudicating court determines that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

Our amended and restated certificate of incorporation contains provisions that limit the liability of our directors for monetary damages to the fullest extent permitted by the DGCL. Consequently, our directors are not personally liable to us or our stockholders for monetary damages for any breach of fiduciary duties as directors, except liability for:

- any breach of the director's duty of loyalty to us or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- unlawful payments of dividends or unlawful stock repurchases or redemptions as provided in Section 174 of the DGCL; or
- any transaction from which the director derived an improper personal benefit.

Our amended and restated certificate of incorporation and our bylaws require us to indemnify our directors and officers, and allow us to indemnify other employees and agents, to the fullest extent permitted by the DGCL.

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Subject to certain limitations and limited exceptions, our amended and restated certificate of incorporation requires us to advance expenses incurred by our directors and officers for the defense of any action for which indemnification is required or permitted.

We have entered into indemnification agreements with certain of our directors and our executive officers. These agreements will provide that we will indemnify such directors and officers to the fullest extent permitted by law and our amended and restated certificate of incorporation.

We also maintain a general liability insurance policy that covers certain liabilities of our directors and officers arising out of claims based on acts or omissions in their capacities as directors or officers.

Item 16. Exhibits.

Exhibit Number	Description
3.1	<u>Amended and Restated Certificate of Incorporation of Acrivon Therapeutics, Inc. (incorporated by reference to Exhibit 3.1 filed with Registrant's Current Report on Form 8-K filed with the Commission on November 17, 2022).</u>
3.2	<u>Amended and Restated Bylaws of Acrivon Therapeutics, Inc. (incorporated by reference to Exhibit 3.2 filed with Registrant's Current Report on Form 8-K filed with the Commission on November 17, 2022).</u>
4.1	<u>Amended and Restated Investors' Rights Agreement, by and among the Registrant and certain of its stockholders, dated November 9, 2021 (incorporated by reference to Exhibit 4.1 to the Registrant's Registration Statement on Form S-3 (File No. 333-267911), filed with the Commission on October 17, 2022).</u>
4.2	<u>Form of Pre-Funded Warrant (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K on April 9, 2024).</u>
4.3	<u>Registration Rights Agreement, dated April 8, 2024, by and among the Company and the Investors named therein (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on April 9, 2024).</u>
5.1*	<u>Opinion of Sidley Austin LLP</u>
10.1	<u>Securities Purchase Agreement, dated April 8, 2024, by and among the Company and the Investors named therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on April 9, 2024).</u>
23.1*	<u>Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm</u>
23.2*	<u>Consent of Sidley Austin LLP (included in Exhibit 5.1).</u>
24.1*	<u>Power of Attorney (incorporated by reference to the signature page hereto).</u>
107*	<u>Filing Fee Table</u>

* Filed herewith.

Item 17. Undertakings.

(a) The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

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- (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;
 - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that the undertakings set forth in paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Securities and Exchange Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.
- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
 - (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
 - (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
 - (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
 - (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.
 - (5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the

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securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
 - (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
 - (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
 - (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been informed that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is therefore unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Watertown, Massachusetts, on April 17, 2024.

ACRIVON THERAPEUTICS, INC.

By: /s/ Peter Blume-Jensen
Peter Blume-Jensen
Chief Executive Officer

By: /s/ Rasmus Holm-Jorgensen
Rasmus Holm-Jorgensen
Chief Financial Officer

POWER OF ATTORNEY

We, the undersigned directors and officers of Acrivon Therapeutics, Inc. (the Company), hereby severally constitute and appoint Peter Blume-Jensen, M.D., Ph.D. and Rasmus Holm-Jorgensen, and each of them singly, our true and lawful attorneys, with full power to them, and to each of them singly, to sign for us and in our names in the capacities indicated below, the registration statement on Form S-3 filed herewith, and any and all pre-effective and post-effective amendments to said registration statement, and any registration statement filed pursuant to Rule 462(b) under the Securities Act of 1933, as amended, in connection with the registration under the Securities Act of 1933, as amended, of equity securities of the Company, and to file or cause to be filed the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys, and each of them, 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 to all intents and purposes as each of them might or could do in person, and hereby ratifying and confirming all that said attorneys, and each of them, or their substitute or substitutes, shall do or cause to be done by virtue of this Power of Attorney. This Power of Attorney does not revoke any power of attorney previously granted by the undersigned, or any of them.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities indicated on the date indicated:

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Peter Blume-Jensen</u> Peter Blume-Jensen, M.D., Ph.D.	Chief Executive Officer, President and Chairman of the Board <i>(Principal Executive Officer)</i>	April 17, 2024
<u>/s/ Rasmus Holm-Jorgensen</u> Rasmus Holm-Jorgensen	Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i>	April 17, 2024
<u>/s/ Charles Baum</u> Charles Baum, M.D., Ph.D.	Director	April 17, 2024
<u>/s/ Derek DiRocco</u> Derek DiRocco, Ph.D.	Director	April 17, 2024

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<u>/s/ Ivana Magovcevic-Liebisch</u> Ivana Magovcevic-Liebisch, Ph.D., J.D.	Director	April 17, 2024
<u>/s/ Kristina Masson</u> Kristina Masson, Ph.D.	Director	April 17, 2024
<u>/s/ Santhosh Palani</u> Santhosh Palani, Ph.D., C. F.A.	Director	April 17, 2024
<u>/s/ Sharon Shacham</u> Sharon Shacham, Ph.D., M.B.A.	Director	April 17, 2024
<u>/s/ Michael Tomsicek</u> Michael Tomsicek, M.B.A.	Director	April 17, 2024

SIDLEY

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AMERICA • ASIA PACIFIC • EUROPE

April 17, 2024

Acrivon Therapeutics, Inc.
480 Arsenal Way, Suite 100
Watertown, Massachusetts

Re: Registration Statement on Form S-3

Ladies and Gentlemen:

We refer to the resale Registration Statement on Form S-3 (the "Registration Statement") being filed by Acrivon Therapeutics, Inc., a Delaware corporation (the "Company"), with the Securities and Exchange Commission on the date hereof, under the Securities Act of 1933, as amended (the "Securities Act"). The Registration Statement relates to the registration under the Securities Act of up to 15,295,000 shares of the Company's common stock, par value \$0.001 per share (the "Common Stock"), which includes 8,235,000 shares of Common Stock (the "Common Shares") that are issued and outstanding and 7,060,000 shares of Common Stock (the "Pre-Funded Warrant Shares" and, collectively with the Common Shares, the "Shares") that may be issued upon the exercise of issued and outstanding pre-funded warrants (the "Pre-Funded Warrants"). The Shares may be offered and sold by the selling stockholders named in the Registration Statement.

This opinion letter is being delivered in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act.

We have examined the Registration Statement, the certificate of incorporation, as amended, of the Company filed with the Secretary of State of the State of Delaware, the bylaws, as amended, of the Company, the Pre-Funded Warrants and the resolutions adopted by the board of directors of the Company and the pricing committee established by the board of directors of the Company relating to the Registration Statement and the issuance of the Pre-Funded Warrants and the Shares by the Company. We have also examined originals, or copies of originals certified to our satisfaction, of such agreements, documents, certificates and statements of the Company and other corporate documents and instruments, and have examined such questions of law, as we have considered relevant and necessary as a basis for this opinion letter. We have assumed the authenticity of all documents submitted to us as originals, the genuineness of all signatures, the legal capacity of all persons and the conformity with the original documents of any copies thereof submitted to us for examination. As to facts relevant to the opinions expressed herein, we have relied without independent investigation or verification upon, and assumed the accuracy and completeness of, certificates, letters and oral and written statements and representations of public officials and officers and other representatives of the Company.

Sidley Austin (CA) LLP is a limited liability partnership doing business as Sidley Austin LLP and practicing in affiliation with other Sidley Austin partnerships.

Based on the foregoing, and subject to the other qualifications and limitations set forth herein, we are of the opinion that:

1. the Common Shares are validly issued, fully paid and non-assessable.

2. The Pre-Funded Warrant Shares, when duly issued and delivered in accordance with the terms of the Pre-Funded Warrants (including the payment of the applicable exercise price), will be validly issued, fully paid and non-assessable.

In rendering the opinion in paragraph 2 above, we have assumed that at the time of the issuance of any Pre-Funded Warrant Shares upon exercise of any Pre-Funded Warrant there will be a sufficient number of shares of Common Stock authorized and then available for issuance under the Company's certificate of incorporation as in effect at such time.

This opinion letter is limited to the General Corporation Law of the State of Delaware. We express no opinion as to the laws, rules or regulations of any other jurisdiction, including, without limitation, the federal laws of the United States of America or any state securities or blue sky laws.

We hereby consent to the filing of this opinion letter as an exhibit to the Registration Statement and to all references to our Firm included in or made a part of the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act.

Very truly yours,

/s/ Sidley Austin LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-3 of Acrivon Therapeutics, Inc. of our report dated March 28, 2024 relating to the financial statements, which appears in Acrivon Therapeutics, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2023. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ PricewaterhouseCoopers LLP

Boston, Massachusetts
April 17, 2024

Calculation of Filing Fee Tables

Form S-3
(Form Type)

Acrivon Therapeutics, Inc.
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities

	Security Type	Security Class Title	Fee Calculation Rule	Amount Registered ⁽¹⁾	Proposed Maximum Offering Price Per Unit ⁽²⁾	Maximum Offering Price ⁽²⁾	Fee Rate	Amount of Registration Fee	Carry Forward Form Type	Carry Forward File Number	Carry Forward Initial effective date	Filing Fee Previously Paid in Connection with Unsold Securities to be Carried Forward
Newly Registered Securities												
Fees to be Paid	Equity	Common Stock, par value \$0.001 per share	457(c)	15,295,000	\$9.75	\$149,126,250	0.0001476	\$22,011.04				
Fees Previously Paid	—	—	—	—	—	—	—	—				
Carry Forward Securities												
Carry Forward Securities	—	—	—	—	—	—	—	—	—	—	—	—
	Total Offering Amounts					\$149,126,250		\$22,011.04				
	Total Fees Previously Paid							\$0.00				
	Total Fee Offsets							\$0.00				
	Net Fee Due							\$22,011.04				

- (1) In addition, pursuant to Rule 416 under the Securities Act of 1933, as amended, the securities registered hereunder include such indeterminate number of securities as may be issuable with respect to the securities being registered hereunder as a result of share splits, share dividends or similar transactions.
- (2) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(c) under the Securities Act of 1933, as amended. The offering price per share and aggregate offering price are based upon the average of the high and low prices for the Registrant's Common Stock as reported on the Nasdaq Global Market on April 11, 2024, a date within five business days prior to the filing of this Registration Statement.