### **PROSPECTUS**



### 752,873 Shares of Common Stock

This prospectus relates to the possible resale or other disposition, from time to time, of up to 752,873 shares of common stock, par value \$0.0001 per share, of 180 Life Sciences Corp., which we refer to as the "Company", "we" or "us", by the selling stockholders named in this prospectus or in supplements to this prospectus. See "Selling Stockholders." We are registering the applicable shares of our common stock to allow the selling stockholders, together with any additional selling stockholders listed in any applicable prospectus supplement, to sell the shares of common stock pursuant to the registration statement of which this prospectus forms a part. The registration of the shares of our common stock covered by this prospectus does not necessarily mean that any shares of our common stock will be sold by any of the selling stockholders, and we cannot predict when or in what amounts any of the selling stockholders may sell any of our shares of common stock offered by this prospectus. The prices at which the selling stockholders may sell the shares of our common stock will be determined by prevailing market prices or at prices that may be obtained in negotiated transactions. We are filing the registration statement of which this prospectus is a part pursuant to contractual obligations that exist with the selling stockholders, as described in more detail in this prospectus under "Prospectus Summary —First Amendment to Separation and Release Agreement with James N. Woody, —Mutual Settlement and General Release Agreement with Dr. Marlene Krauss; and —Confidential Settlement Agreement and Release with AmTrust and AFSI".

We are not selling any shares of our common stock under this prospectus and any prospectus supplement, and will not receive any proceeds from any sale or disposition by the selling stockholders of the shares of our common stock covered by this prospectus and any prospectus supplement. The selling stockholders may offer and sell the shares in a variety of transactions as described under the heading "Plan of Distribution", including directly or through one or more underwriters, broker-dealers or agents on terms to be determined at the time of sale. We have no basis for estimating either the number of shares of our common stock that will ultimately be sold by the selling stockholders or the prices at which such shares will be sold.

We are bearing all of the expenses in connection with the registration of the shares of common stock, but all selling expenses incurred by the selling stockholders, including commissions and discounts, if any, attributable to the sale or disposition of the shares will be borne by them.

The selling stockholders and intermediaries through whom such securities are sold may be deemed <u>underwriters</u> within the meaning of the Securities Act of 1933, as amended (the <u>Securities Act</u>), with respect to the securities offered hereby, and any profits realized or commissions received may be deemed underwriting compensation.

In addition, any securities covered by this prospectus which qualify for sale pursuant to Rule 144 of the Securities Act may be sold under Rule 144 rather than pursuant to this prospectus.

Our common stock trades on the Nasdaq Capital Market, or Nasdaq, under the symbol "ATNF" On May 20, 2025, the last reported sale price of our common stock on Nasdaq was \$1.15 per share.

Investing in our securities involves risks. You should carefully consider the risk factors incorporated by reference herein as discussed in the "Risk Factors" section beginning on page 5 of this prospectus and set forth in the documents incorporated by reference herein before making any decision to invest in our securities.

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 MAY 20, 2025

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Our logo and some of our trademarks and tradenames are used in this prospectus. This prospectus also includes trademarks, tradenames and service marks that are the property of others. Solely for convenience, trademarks, tradenames and service marks referred to in this prospectus may appear without the ®, TM and SM symbols. References to our trademarks, tradenames and service marks are not intended to indicate in any way that we will not assert to the fullest extent under applicable law our rights or the rights of the applicable licensors if any, nor that respective owners to other intellectual property rights will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend the use or display of other companies' trademarks and trade names to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

The market data and certain other statistical information used throughout this prospectus are based on independent industry publications, reports by market research firms or other independent sources that we believe to be reliable sources; however, we have not commissioned any of the market or survey data that is presented in this prospectus. Industry publications and third-party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. We are responsible for all of the disclosures contained in this prospectus, and we believe these industry publications and third-party research, surveys and studies are reliable, provided that we have not commissioned any such information. While we are not aware of any misstatements regarding any third-party information presented in this prospectus, their estimates, in particular, as they relate to projections, involve numerous assumptions, are

subject to risks and uncertainties, and are subject to change based on various factors, including those discussed under the section entitled "<u>Risk Factors</u>" of this prospectus. These and other factors could cause our future performance to differ materially from our assumptions and estimates. Some market and other data included herein, as well as the data of competitors as they relate to 180 Life Sciences Corp., is also based on our good faith estimates.

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Unless the context requires otherwise, references to the "Company," "we," "us," "our," "180 Life", "180 Lsfe" and "180 Life Sciences Corp." refer specifically to 180 Life Sciences Corp. and its consolidated subsidiaries. References to "KBL" refer to the Company prior to the November 6, 2020 Business Combination.

In addition, unless the context otherwise requires and for the purposes of this prospectus only:

- "Exchange Act" refers to the Securities Exchange Act of 1934, as amended;
- "£" or "GBP" refers to British pounds sterling;
- "SEC" or the "Commission" refers to the United States Securities and Exchange Commission; and
- "Securities Act" refers to the Securities Act of 1933, as amended.

Effective on December 19, 2022 at 12:01 a.m. Eastern Time, we affected a 1-for-20 reverse stock split of our then outstanding common stock, with any fractional shares rounded up to the nearest whole share. Effective on February 28, 2024 at 12:01 a.m. Eastern Time, we affected a 1-for 19 reverse stock split of our then outstanding common stock with any fractional shares rounded up to the nearest whole share.

In connection with the reverse splits discussed above (the 'Reverse Stock Splits'), all outstanding options, warrants, and other securities entitling their holders to purchase or otherwise receive shares of common stock were adjusted, as required by the terms of each security. The number of shares available to be awarded under the Company's equity incentive plans were also appropriately adjusted. Following the Reverse Stock Splits, the par value of the common stock remained unchanged at \$0.0001 par value per share. The Reverse Stock Splits did not change the authorized number of shares of common stock or preferred stock.

The effects of the Reverse Stock Splits have been retroactively reflected throughout this prospectus.

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## ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission (the <u>Commission</u>" or the <u>"SEC"</u>) under the Securities Act of 1933, as amended (the <u>"Securities Act"</u>), utilizing a <u>"shelf"</u> registration process. Under this process, selling stockholders named in this prospectus or in one or more supplements to this prospectus may sell shares of common stock from time to time. Each time any selling stockholder not named herein sells shares of common stock under the registration statement of which this prospectus is a part, such selling stockholder will provide a copy of this prospectus and any applicable prospectus supplement, as required by law. Any applicable prospectus supplement may add, update, or change information contained in this prospectus. To the extent that any statement that we or the selling stockholders make in a prospectus supplement is inconsistent with statements made in this prospectus or in documents incorporated by reference in this prospectus, the statements made or incorporated by reference in this prospectus will be deemed modified or superseded by those made in the prospectus supplement.

This prospectus relates to the resale by the selling stockholders listed in this prospectus of up to 752,873 shares of our common stock. We will not receive any proceeds from the resale of any of the shares by the selling stockholders. We have agreed to pay for the expenses related to the registration of the shares being offered by the selling stockholders.

You should read this prospectus, including all documents incorporated herein by reference, together with additional information described under "Where You Can Find More Information" and "Incorporation of Certain Information by Reference", before making an investment decision.

This prospectus does not contain all the information provided in the registration statement we filed with the SEC. For further information about us or our securities offered hereby, you should refer to that registration statement, which you can obtain from the SEC as described below under "Where You Can Find More Information".

You should rely only on the information contained or incorporated by reference in this prospectus, any accompanying prospectus supplement and any applicable "free writing prospectus." We and the selling stockholders have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus is not an offer to sell or the solicitation of an offer to buy any securities other than the securities to which it relates and is not an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make an offer or solicitation in that jurisdiction. You should assume that the information appearing in this prospectus, as well as information we have previously filed with the SEC and incorporated herein by reference, is accurate as of the date of those documents only. Our business, financial condition, results of operations and prospects may have changed since those dates.

We do not imply or represent by delivering this prospectus that 180 Life Sciences Corp., or its business, financial condition or results of operations, are unchanged after the date on the front of this prospectus or that the information in this prospectus is correct at any time after such date, provided that we will amend or supplement this prospectus to disclose any material events which occur after the date of such prospectus to the extent required by applicable law.

The selling stockholders may from time to time offer and sell, transfer or otherwise dispose of any or all of the shares of our common stock covered by this prospectus directly or through one or more underwriters, broker-dealers or agents on terms to be determined at the time of sale. A prospectus supplement may describe the terms of the plan of distribution and set forth the names of any underwriters involved in the sale of our common stock. See "Plan of Distribution" for more information.

You should carefully read the entire prospectus, as well as the documents incorporated by reference in the prospectus, any applicable prospectus supplement and any applicable "free writing prospectus" before making an investment decision.

This summary highlights information contained elsewhere in this prospectus. This summary does not contain all of the information that you should consider before deciding to invest in our securities. You should read this entire prospectus carefully, including the "Risk Factors" section, as well as our historical financial statements and the notes thereto which are incorporated by reference in this prospectus.

#### **Our Company**

We were formed as a clinical stage biotechnology company, focused on the development of therapeutics for unmet medical needs in chronic pain, inflammation and fibrosis by employing innovative research, and, where appropriate, combination therapy. In September 2024, we completed the acquisition of certain source code and intellectual property relating to the back-end technology platform to operate an online blockchain casino, and moving forward, we plan to focus the majority of our operations on the creation of the online blockchain casino, while looking to monetize certain prior development stage therapeutic product candidates for unmet medical needs.

# Planned iGaming Casino Operations

We are planning to strategically enter into the online gaming industry, utilizing certain source code and intellectual property relating to an online blockchain casino we acquired in September 2024, i.e., our newly acquired "back-end" gaming platform, which incorporates blockchain technology and cryptocurrency operability (the "Gaming Technology Platform"). The Company plans to use this technology platform to establish a blockchain-based business aimed at the global iGaming market, focusing initially only on the cryptocurrency market and in the future, potentially the traditional fiat currency wagering market. Initially focusing on B2C (business-to-consumer) online casinos, the Company also plans to expand into a B2B (business-to-business) model, offering a seamless blockchain-enabled technology platform for gaming operators worldwide. In addition, management has identified certain global iGaming industry characteristics and trends that they believe make potential acquisition opportunities attractive. Management believes that the combination of the Gaming Technology Platform and the strength of a Nasdaq listing make the Company an attractive consolidation vehicle for the iGaming industry, and plans to work to identify potential acquisitions in the future (although no definitive acquisition agreements have been entered into to date).

## Legacy Biotechnology Programs

We currently have two legacy biotechnology programs that are focused on different diseases or medical conditions, and that target different factors, molecules or proteins. Due to restrictions in the Company's resources, the Company has slowed down research and development activities significantly in the SCA platform (discussed below) and the anti-TNF platform (discussed below).

The Company is currently evaluating all options to monetize its existing life science assets, in addition to exploring other strategic alternatives to maximize value for its stockholders. Our legacy biotechnology programs include:

- fibrosis and anti-tumor necrosis factor ("TNF"); and
- drugs which are derivatives of cannabidiol ("CBD") or cannabigerol ("CBG") analogues ("SCAs").

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# First Amendment to Separation and Release Agreement with James N. Woody

On February 5, 2025, the Company entered into a First Amendment to Separation and Release Agreement with James N. Woody, the Company's former Chief Executive Officer and director (the "First Amendment"). Pursuant to the First Amendment, Dr. Woody agreed to amend the terms of that certain Separation and Release Agreement dated May 7, 2024, entered into between Dr. Woody and the Company, as described in greater detail in the Current Report on Form 8-K filed by the Company with the Commission on May 9, 2024, to terminate the prior requirement of the Company set forth therein to pay Dr. Woody a bonus of \$50,000 (the "Future Contingent Payment"), [A] if the Company, within the 24 months following the date of Dr. Woody's resignation, completed any corporate transaction, including but not limited to any merger, reverse merger, acquisition, disposal, joint-venture and/or investment involving the Company, which results in a change of control; or [B] if the Company raises at least \$5 million from any source within 12 months from Dr. Woody's resignation date. Instead, pursuant to the First Amendment, Dr. Woody agreed to accept \$60,000 in shares of restricted common stock of the Company (or 43,166 shares of common stock, based on the closing sales price of the Company's common stock on February 5, 2025, which closing price was \$1.39 per share, the "Separation Shares"), in lieu of the Future Contingent Payment which obligation was terminated. The Separation Shares included piggyback registration rights for a resale registration statement relative to the Separation Shares for a period of six (6) months.

The First Amendment also required Dr. Woody to enter into a Voting Agreement with the Company. Pursuant to the Voting Agreement, which was entered into on February 5, 2025, by Dr. Woody, the Company, and Blair Jordan, the Company's Chief Executive Officer, solely for the benefit of the Company, Dr. Woody agreed to vote the Separation Shares as recommended by the Board of Directors of the Company, at any meeting of stockholders or via any written consent of stockholders, which may occur prior to February 5, 2026; the date after August 5, 2025, that Dr. Woody has sold all of the Separation Shares; or the date that the Company terminates the Voting Agreement. In order to enforce the terms of the Voting Agreement, and solely for the benefit of the Company, Dr. Woody provided Mr. Jordan (or his assigns) an irrevocable voting proxy to vote the Separation Shares pursuant to the guidelines set forth above at any meeting of stockholders or via any written consent of stockholders. The Voting Agreement also provides a restriction on Dr. Woody's sale or transfer of any of the Separation Shares until August 5, 2025.

# Mutual Settlement and General Release Agreement with Dr. Marlene Krauss

On February 21, 2025, the Company entered into a Mutual Settlement and General Release Agreement with Dr. Marlene Krauss ("<u>Dr. Krauss</u>"), the former Chief Executive Officer and director of KBL Merger Corp. IV, the Company's predecessor, and KBL IV Sponsor, LLC ("<u>KBL Sponsor</u>") (the "<u>Release Agreement</u>"). Pursuant to the Release Agreement, the Company agreed to (1) pay \$50,000 within twenty days from February 21, 2025, which was timely paid (the "<u>Cash Payment</u>"), and (2) issue 200,000 shares of restricted common stock within three business days, which were timely issued (the "<u>Release Shares</u>"). The Release Shares include piggyback registration rights for a resale registration statement relative to the Release Shares for a period of six (6) months.

The Release Agreement also required Dr. Krauss to enter into a Voting Agreement with the Company. Pursuant to the Voting Agreement, which was entered into on February 21, 2025, by Dr. Krauss, the Company, and Blair Jordan, the Company's Chief Executive Officer, solely for the benefit of the Company, Dr. Krauss agreed to vote the Release Shares as recommended by the Board of Directors of the Company, at any meeting of stockholders or via any written consent of stockholders, which may occur prior to August 21, 2025. In order to enforce the terms of the Voting Agreement, and solely for the benefit of the Company, Dr. Krauss provided Mr. Jordan (or his assigns) an irrevocable voting proxy to vote the Release Shares pursuant to the guidelines set forth above at any meeting of stockholders or via any written consent of stockholders. The Voting Agreement also provides a restriction on Dr. Krauss's sale or transfer of any of the Release Shares until August 21, 2025 and provides for mutual general releases of the parties.

The Release Agreement required Dr. Krauss to file a dismissal of her court actions within ten days after receipt of the Cash Payment and that the Company, Dr. Krauss and KBL Sponsor dismiss all of their claims against one another with prejudice, which actions have occurred to date.

#### Confidential Settlement Agreement and Release with AmTrust and AFSI

On, and effective on, April 6, 2025 (the 'Effective Date'), we entered into a Confidential Settlement Agreement and Release (the 'Settlement Agreement') with AmTrust International Underwriters DAC ("AmTrust") and AmTrust Financial Services, Inc. ("AFSI"). Pursuant to the Settlement Agreement, the Company and AmTrust agreed to resolve certain ongoing litigation and disputes relating to the Company's pre-merger directors' and officers' insurance policy, as previously disclosed (the "Coverage Action").

Pursuant to the terms of the Settlement Agreement, we agreed to (i) pay AmTrust a cash payment of \$250,000 (the "Settlement Sum") within 20 days of the Effective Date, which payment was timely made, and (ii) issue AFSI 509,707 shares of the Company's common stock, par value \$0.0001 per share (the "Settlement Shares"), within three business days of the Effective Date, which shares were timely issued. The Settlement Shares were valued at \$575,000 (the "Shares Value"), based on the volumeweighted average price of the Company's common stock over the 30 trading days preceding the Effective Date and are subject to customary anti-dilution protections, including adjustments for reverse and forward stock splits, stock combinations, and stock dividends.

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Following the delivery of both the Settlement Sum and the Settlement Shares, the parties filed a joint stipulation of dismissal with prejudice of the Coverage Action, which was approved and entered by the District Court in an Order dated April 30, 2025.

In connection with the settlement, the Company and AmTrust provided each other broad mutual releases of all claims, known and unknown, arising out of or relating to. among other things, the Coverage Action, certain claims relating to an SEC investigation of certain of the Company's pre-merger officers, including Dr. Krauss, a lawsuit filed by the Company against Dr. Krauss, certain cross claims made by the Company against AmTrust, and related insurance claims and matters, including any claims for bad faith, breach of the implied covenant of good faith and fair dealing, or alleged unfair insurance practices. These releases extend to affiliates, officers, directors, employees, agents, and other related parties of both entities. The Settlement Agreement expressly provides that it does not release the parties from enforcing obligations arising under the Settlement Agreement itself.

In connection with the issuance of the Settlement Shares and pursuant to the Settlement Agreement, the Company agreed to provide AFSI with certain registration rights. Specifically, the Company is obligated to use commercially reasonable efforts to file a registration statement on Form S-1 (or Form S-3, if available) with the SEC within 45 days of the Effective Date (i.e., on or before May 21, 2025) to register the resale of the Settlement Shares (the "Resale Registration Statement"). The Company has further agreed to use commercially reasonable efforts to cause the Resale Registration Statement to be declared effective within 60 days following the Effective Date (i.e., on or before June 5, 2025), or, in the event of SEC notice that the Registration Statement will not be reviewed, by the third business day thereafter. The registration statement of which this prospectus forms a part is the required Resale Registration Statement under the Settlement Agreement.

The Company is required to keep the Resale Registration Statement continuously effective until such time as AFSI no longer holds any Settlement Shares, and to bear all related costs and expenses in connection with such registration, excluding AFSI's legal fees. Additionally, the Company must provide legal opinion coverage at its expense, if necessary, to enable AFSI to rely on Rule 144 resale exemptions after six months.

If the Company fails to file or cause the Resale Registration Statement to become effective within 105 days after the Effective Date (i.e., on or before July 20, 2025), if the prospectus included in the registration statement can no longer be relied upon, or if the Company fails to maintain the effectiveness of the Resale Registration Statement (each, a "Registration Statement Failure Event"), the Company is required to pay liquidated damages equal to 3.0% of the Shares Value (\$17,250) for each such failure and for each month such failure continues, subject to a cap of 33.0% of the Shares Value (\$189,750).

The Settlement Agreement included customary representations and warranties of the parties, including representations from AFSI confirming its status as an accredited investor

## **Corporate Information**

Our principal executive offices are located at 3000 El Camino Real, Bldg. 4, Suite 200, Palo Alto, California 94306. Our telephone number is (650) 285-2387. We file annual, quarterly, and current reports, proxy statements and other information with the SEC. Our SEC filings (reports, proxy and information statements, and other information) are available to the public over the Internet at the SEC's website at www.sec.gov and are available for download, free of charge, soon after such reports are filed with or furnished to the SEC, on the "Investors" - "SEC Filings" - "All SEC Filings" page of our website at www.180lifesciences.com. The information contained on, or that can be accessed through, our website is not incorporated by reference into this prospectus. We have included our web address as an inactive textual reference only. We make our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to these reports available free of charge on our website as soon as reasonably practicable after we file these reports with the Securities and Exchange Commission.

### THE OFFERING

Securities to be Offered by the Selling

Stockholders

Up to 752,873 shares of our common stock.

Terms of the Offering:

The selling stockholders will determine when and how it will sell the shares of common stock offered in this prospectus, as described in "Plan of Distribution."

Common Stock Outstanding Prior to this

Offering

5,695,487 shares of our common stock

Use of Proceeds

All proceeds from the sale of the shares of common stock under this prospectus will be for the account of the selling stockholders. We will not receive any proceeds from the sale of our shares of common stock offered pursuant to this prospectus. See the section entitled "Use of Proceeds" in this prospectus.

Risk Factors

An investment in our securities involves a high degree of risk. You should read the section entitled "Risk Factors" in this prospectus for a discussion of the risk factors to consider carefully before deciding to invest in shares of our

common stock.

# Nasdaq Capital Market Symbol

ATNF

The number of shares of our common stock shown as issued and outstanding in the table above is based on 5,695,487 shares of our common stock outstanding as of May 20, 2025 and excludes as of such date:

- 21,564 shares of common stock issuable upon the exercise of outstanding stock options with a weighted average exercise price of \$23.81 per share;
- 7,000 additional shares of our common stock reserved for future issuance under our 2020 Omnibus Incentive Plan;
- 373,162 additional shares of our common stock reserved for future issuance under our 2022 Omnibus Incentive Plan, as amended; and
- (a) 15,132 shares of common stock issuable upon the exercise of outstanding public warrants exercisable at an exercise price of \$4,370.00 per share, (b) 6,748 shares of common stock issuable upon the exercise of certain outstanding private placement warrants at an exercise price of \$1,900.00 per share, (c) 6,579 shares of common stock issuable upon the exercise of certain outstanding private placement warrants at an exercise price of \$2,850.00 per share, (d) 4,049 shares of common stock issuable upon exercise of certain outstanding warrants to purchase shares of common stock with an exercise price of \$3.23 per share, (e) 3,000,000 shares of common stock issuable upon the exercise of warrants to purchase 3,000,000 shares of common stock with an exercise price of \$1.68 per share, (f) 168 shares of common stock issuable upon exercise of warrants with an exercise price of \$2,007.00 per share, (g) 1,900,138 shares of common stock issuable upon exercise of warrants to purchase shares of common stock with an exercise price of \$1.50 per share, and (h) 1,200,000 shares of common stock issuable upon exercise of warrants to purchase shares of common stock with an exercise price of \$2.28 per share.

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### RISK FACTORS

Investing in our common stock involves a high degree of risk. Before you decide to invest in our common stock, you should carefully consider the risks described in the section captioned "Risk Factors" in our most recent Annual Report on Form 10-K, as amended, and our most recent Quarterly Report on Form 10-Q, which are incorporated by reference herein in their entirety, and those risk factors set forth below, together with the other information in this prospectus or any prospectus supplement and documents incorporated by reference in this prospectus or any prospectus supplement. The risks described in our most recent Annual Report on Form 10-K, as amended, our most recent Quarterly Report on Form 10-Q and below are not the only ones facing our company. Additional risks and uncertainties may also impair our business operations. If any of the risks described in our most recent Annual Report on Form 10-K, as amended, our most recent Quarterly Report on Form 10-Q and the other filings incorporated by reference herein, or below, occurs, our business, financial condition, results of operations and future growth prospects could be harmed. In these circumstances, the market price of our common stock could decline, and you may lose all or part of your investment.

Sales of our common stock registered for resale by the selling stockholders pursuant to this prospectus or the perception of such sales in the public market or otherwise could cause the market price for our common stock to decline.

The sale of shares of our common stock in the public market or otherwise, including sales pursuant to this prospectus, or the perception that such sales could occur, could reduce the prevailing market price of shares of our common stock and increase the volatility of our share price. These sales, or the possibility that these sales may occur, also might make it more difficult for us:

- (i) to sell equity securities in the future at a time and at a price that we deem appropriate; and
- (ii) to comply with the Nasdaq listing standards with regard to the minimum bid price of our common stock.

Resales of our common stock may cause the market price of our securities to drop significantly, even if our business is doing well.

The shares of common stock being offered for resale pursuant to this prospectus by the selling stockholders represent approximately 13.2% of the outstanding shares of common stock as of May 20, 2025. After the registration statement, of which this prospectus is a part, is effective and until such time that it is no longer effective, the registration statement registering the shares will permit the resale of these shares. As such, sales of a substantial number of shares of our common stock in the public market could occur at any time.

If shares are sold in the public market, such sales of our common stock could have the effect of depressing the market price for our common stock. These sales may also make it more difficult for us to sell equity securities in the future at a time and at a price that we deem appropriate to raise funds through future offerings of our common stock.

Stockholders may be diluted significantly through our efforts to obtain financing and satisfy obligations through the issuance of additional shares of our common stock.

Wherever possible, our Board of Directors will attempt to use non-cash consideration to satisfy obligations. In many instances, we believe that the non-cash consideration will consist of restricted shares of our common stock or where shares are to be issued to our officers, directors and applicable consultants. Our Board of Directors has authority, without action or vote of the stockholders, but subject to Nasdaq rules and regulations (which generally require stockholder approval for any transactions which would result in the issuance of more than 20% of our then outstanding shares of common stock or voting rights representing over 20% of our then outstanding shares of stock, subject to certain exceptions), to issue all or part of the authorized but unissued shares of common stock. In addition, we may attempt to raise capital by selling shares of our common stock, possibly at a discount to market. These actions will result in dilution of the ownership interests of existing stockholders, which may further dilute common stock book value, and that dilution may be material. Such issuances may also serve to enhance existing management's ability to maintain control of the Company because the shares may be issued to parties or entities committed to supporting existing management.

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## We have established preferred stock which can be designated by the Board of Directors without shareholder approval.

We have 5,000,000 shares of preferred stock authorized, of which 1,000,000 shares have been designated as Series A Convertible Preferred Stock (of which none are outstanding), of which one share of preferred stock has been designated as a Class C Special Voting Share, of which none are outstanding, one share of preferred stock has been designated as a Class K Special Voting Share, of which none are outstanding, and of which 1,000,000 shares have been designated as Series B Convertible Preferred Stock, of which none are outstanding. Because the Board of Directors is able to designate the powers and preferences of the preferred stock without the vote of a majority of the Company's shareholders (subject to applicable Nasdaq rules and requirements), shareholders of the Company will have no control over what designations and preferences the Company's preferred stock will have. The issuance of shares of preferred stock or the rights associated therewith, could cause substantial dilution to our existing shareholders.

Additionally, the dilutive effect of any preferred stock which we may issue may be exacerbated given the fact that such preferred stock may have voting rights and/or other rights or preferences which could provide the preferred shareholders with substantial voting control over us and/or give those holders the power to prevent or cause a change in control, even if that change in control might benefit our shareholders. As a result, the issuance of shares of preferred stock may cause the value of our securities to decrease.

We face significant penalties and damages in the event the registration statement, of which this prospectus forms a part, registering the resale of the Settlement Shares is not timely declared effective or is not available for the sale of such shares.

Pursuant to the April 2025 Confidential Settlement Agreement and Release entered into with AmTrust and AFSI, we agreed to provide AFSI with certain registration rights. Specifically, the Company is obligated to use commercially reasonable efforts to file a registration statement on Form S-1 (or Form S-3, if available) with the SEC on or before May 21, 2025 to register the resale of the Settlement Shares. The Company has further agreed to use commercially reasonable efforts to cause the Resale Registration Statement to be declared effective on or before June 5, 2025, or, in the event of SEC notice that the Registration Statement will not be reviewed, by the third business day thereafter. The registration statement of which this prospectus forms a part is the required Resale Registration Statement under the Settlement Agreement, which was declared effective by the required date set forth in the agreement.

The Company is required to keep the Resale Registration Statement continuously effective until such time as AFSI no longer holds any Settlement Shares. Additionally, the Company must provide legal opinion coverage at its expense, if necessary, to enable AFSI to rely on Rule 144 resale exemptions after six months.

If the prospectus included in the registration statement can no longer be relied upon, or if the Company fails to maintain the effectiveness of the Resale Registration Statement (each, a "Registration Statement Failure Event"), the Company is required to pay liquidated damages equal to \$17,250 for each such failure and for each month such failure continues, subject to a cap of \$189,750.

In the event the Resale Registration Statement is suspended or terminated, or we otherwise fail to meet certain requirements set forth in the Settlement Agreement, we could be required to pay significant penalties which could adversely affect our cash flow and operations and could cause the value of our securities to decline in value or become worthless.

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In the past we have not been in compliance with Nasdaq's continued listing standards and may not be in compliance with such standards in the future, and are currently subject to a one year mandatory panel monitor, and as a result our common stock and public warrants may be delisted from Nasdaq.

Our common stock and public warrants trade on Nasdaq under the symbols "ATNF" and "ATNFW," respectively. Notwithstanding such listing, there can be no assurance any broker will be interested in trading our securities. Therefore, it may be difficult to sell our securities publicly. There is also no guarantee that we will be able to maintain our listings on Nasdaq for any period of time by perpetually satisfying Nasdaq's continued listing requirements.

We have previously been out of compliance with Nasdaq's continued listing requirements due to our failure to maintain a minimum bid price of at least \$1.00 per share for our common stock, which most recent failure was remedied in March 2024.

Also, on October 11, 2023, the Company received written notice from Nasdaq notifying the Company that it was not in compliance with the shareholder approval requirements set forth in Nasdaq Listing Rule 5635(d), which require prior shareholder approval for transactions, other than public offerings, involving the issuance of 20% or more of the pre-transaction shares outstanding at less than the applicable Minimum Price (as defined in Listing Rule 5635(d)(1)(A)), which non-compliance we remedied in December 2023.

Additionally, on November 15, 2023, the Company received a letter from Nasdaq notifying the Company that it was not in compliance with the minimum stockholders' equity requirement for continued listing on the Nasdaq Capital Market. Nasdaq Listing Rule 5550(b)(1) (the "Equity Rule") requires companies listed on the Nasdaq Capital Market to maintain stockholders' equity of at least \$2,500,000. In the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2023, the Company reported a stockholders' deficit of (\$149,327), which was below the minimum stockholders' equity required for continued listing pursuant to the Equity Rule. Additionally, the Company did not meet the alternative Nasdaq continued listing standards under Nasdaq Listing Rules and did not meet the minimum stockholders' equity requirement as of December 31, 2023, March 31, 2024, or June 30, 2024.

Nasdaq provided the Company until January 2, 2024 to submit to Nasdaq a plan to regain compliance. We submitted the plan to regain compliance in a timely manner, and on January 11, 2024, Nasdaq advised the Company that it has determined to grant the Company an extension to regain compliance with the Equity Rule, subject to certain requirements, including completing the transactions outlined in the plan of compliance which were intended to increase the Company's stockholders' equity to more than \$2.5 million.

While the Company was able to undertake some of the transactions described in the compliance plan, it was unable to regain compliance with the Equity Rule prior to the end of the plan period (May 13, 2024). As a result, on May 14, 2024, the Company received a delist determination letter from the Listing Qualifications department of The Nasdaq Stock Market LLC (the "Staff") advising the Company that the Staff had determined that the Company did not meet the terms of the extension. On May 17, 2024, the Company requested an appeal of the Staff's delisting determination, and on May 20, 2024, the Staff advised the Company that the delisting action referenced in the Staff's determination letter had been stayed, pending a final written decision by the Nasdaq Hearings Panel ("Panel"). On July 2, 2024, the Company received notice that the Panel had determined to grant the Company's request to continue its listing on The Nasdaq Stock Market, subject to the Company meeting certain conditions, including filing on or before July 31, 2024, a public disclosure describing the transactions undertaken by the Company to achieve compliance with Nasdaq's continued listing rules and demonstrate long-term compliance with the Equity Rule and providing an indication of its equity following those transactions. On July 22, 2024, the Panel granted the Company's request for additional time to achieve compliance with Nasdaq's continued listing rules and demonstrate long-term compliance with the Equity Rule. The Hearings Panel subsequently extended that deadline to September 30, 2024, and further to October 15, 2024, to regain compliance with the Equity Rule and to allow the continued listing of the Company's common stock and warrants on The Nasdaq Stock Market through such date, subject to the Company's compliance with the Equity Rule on or prior to such date.

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On October 4, 2024, as a result of the acquisition of certain source code and intellectual property relating to the back-end technology platform to operate an online blockchain casino, we received a letter from Nasdaq confirming that we had regained compliance with the Equity Rule. Nasdaq also advised the Company that in application of Listing Rule 5815(d)(4)(B), the Company is subject to a mandatory panel monitor for a period of one year from the date of such letter (October 4, 2025). If, within that one-year monitoring period, the Staff finds that the Company is no longer in compliance with the Equity Rule, then, notwithstanding Rule 5810(c)(2), the Company will not be permitted to provide the Staff with a plan of compliance with respect to such deficiency, nor will the Company be afforded an applicable cure or compliance period pursuant to Rule 5810(c)(3). Instead, the Staff will issue a Delist Determination Letter and the Company will have an opportunity to request a new hearing with the initial Panel or a newly convened Hearings Panel if the initial Panel is unavailable. The Company will have the opportunity to respond/present to the Hearings Panel as provided by Listing Rule 5815(d)(4)(C) and the Company's securities may at that time be delisted from Nasdaq.

If the Company's common stock and public warrants are delisted, it could be more difficult to buy or sell the Company's common stock and public warrants or to obtain accurate quotations, and the price of the Company's common stock and public warrants could suffer a material decline. Delisting could also impair the Company's ability to raise capital and/or trigger defaults and penalties under outstanding agreements or securities of the Company.

Among the conditions required for continued listing on The Nasdaq Capital Market, Nasdaq requires us to maintain at least \$2.5 million in stockholders' equity or \$500,000 in net income over the prior two years or two of the prior three years. As of September 30, 2023, December 31, 2023, March 31, 2024, and June 30, 2024, our stockholders' equity was below \$2.5 million and we did not otherwise meet the net income requirements described above, and as such, we were not in compliance with Nasdaq's continued listing standards relating to minimum stockholders' equity until September 30, 2024.

Our failure to meet Nasdaq's continued listing requirements for the reasons above, or any other reason, may result in our securities being delisted from Nasdaq.

Additional conditions required for continued listing on Nasdaq include requiring that we have a majority of independent directors, a two-person compensation committee and a three-member audit committee (each consisting of all independent directors), which three-person audit committee requirement we have not met from time to time in the past. As a result, our common stock and public warrants may be delisted from Nasdaq.

We also have to continue to meet other objective and subjective listing requirements to continue to be listed on The Nasdaq Capital Market. Delisting from The Nasdaq Capital Market could make trading our common stock and public warrants more difficult for investors, potentially leading to declines in our share price and liquidity. Without a Nasdaq Capital Market listing, stockholders may have a difficult time getting a quote for the sale or purchase of our common stock and public warrants, the sale or purchase of our common stock and public warrants would likely be made more difficult, and the trading volume and liquidity of our common stock and public warrants could decline. Delisting from The Nasdaq Capital Market could also result in negative publicity and could also make it more difficult for us to raise additional capital. The absence of such a listing may adversely affect the acceptance of our common stock as currency or the value accorded by other parties. Further, if we are delisted, we would also incur additional costs under state blue sky laws in connection with any sales of our securities. These requirements could severely limit the market liquidity of our common stock and public warrants and the ability of our stockholders and warrant holders to sell our common stock and public warrants in the secondary market. If our common stock and public warrants are delisted by Nasdaq, our common stock and public warrants may be eligible to trade on an over-the-counter quotation system, such as the OTCQB Market or the OTC Pink market, where an investor may find it more difficult to sell our common stock and public warrants or obtain accurate quotations as to the market value of our common stock and public warrants. In the event our common stock and public warrants are delisted from The Nasdaq Capital Market, we may not be able to list our common stock on another national securities exchange or obtain quotation on an over-the counter quotation system.

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### CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus and the documents or information incorporated by reference herein contain, and any prospectus supplement and the documents incorporated therein may contain, forward-looking statements within the meaning of the federal securities laws, including Section 27A of the Securities Act of 1933, as amended, Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the Private Securities Litigation Reform Act of 1995, as amended. These forward-looking statements are subject to risks and uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from the results, performance or achievements expressed or implied by the forward-looking statements. You should not unduly rely on these statements. Factors, risks, and uncertainties that could cause actual results to differ materially from those in the forward-looking statements include, among others:

- The need for additional funding, including that our current cash on hand is expected to last us until only December 2025, if we do not raise funding in the future;
- our ability to create or purchase a front end for our back end blockchain casino intellectual property assets, commercialize our planned iGaming casino, obtain required licenses and customers, and come to mutually agreeable contractual terms with third parties and suppliers, and ultimately generate revenues through such operations;
- expectations for the clinical and preclinical development, manufacturing, regulatory approval, and commercialization of our biotechnology focused product candidates;
- the uncertainties associated with the clinical development and regulatory approval of the Company's drug candidates, including potential delays in the enrollment and completion of clinical trials, issues raised by the U.S. Food and Drug Administration (FDA), the European Medicines Agency (EMA) and the U.K. Medicines and Healthcare products Regulatory Agency (MHRA);
- regulatory developments in the United States and foreign countries;
- our success in retaining or recruiting, or changes required in, our officers, key employees or directors;
- current negative operating cash flows and our potential ability to obtain additional financing to advance our business and the terms of any further financing, which may be highly dilutive and may include onerous terms;
- the accuracy of our estimates regarding expenses, future revenues and capital requirements;
- the Company's reliance on third parties to conduct its clinical trials, enroll patients, and manufacture its preclinical and clinical drug supplies, the ability to come to mutually agreeable terms with such third parties and partners, and the terms of such agreements;
- the terms of the Company's current licensing agreements, and the termination rights associated therewith;
- estimates of patient populations for the Company's planned products;
- unexpected adverse side effects or inadequate therapeutic efficacy of drug candidates that could limit approval and/or commercialization, or that could result in recalls or product liability claims;

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- the Company's ability to fully comply with numerous federal, state and local laws and regulatory requirements, as well as rules and regulations outside the United States, that apply to its product development activities;
- challenges and uncertainties inherent in product research and development, including the uncertainty of clinical success and of obtaining regulatory approvals; and uncertainty of commercial success;

- the ability of the Company to execute its plans to develop and market new drug products and the timing and costs of these development programs;
- changing rates of inflation and interest rates, and economic downturns, including potential recessions, as well as macroeconomic, geopolitical, health and industry trends, pandemics, acts of war (including the ongoing Ukraine/Russian conflict, and Israel/Hamas conflict), the effects of tariffs and trade wars, and other large-scale crises;
- estimates of the sufficiency of our existing capital resources combined with future anticipated cash flows to finance our operating requirements;
- the review and evaluation of strategic transactions and their impact on shareholder value; the process by which the Company engages in evaluation of strategic transactions; the outcome of potential future strategic transactions and the terms thereof;
- our ability to maintain our listing of our common stock and public warrants on the Nasdaq Capital Market;
- the reliance on suppliers of third-party gaming content and the cost of such content, and reliance on third-party service providers for our planned iGaming platform, including but not limited to marketing, customer service and data management services;
- the ability of the Company to obtain gaming licenses;
- the Company's reliance on its management;
- the potential effect of economic downturns, recessions, tariffs, changes in interest rates and inflation, and market conditions, including recessions, decreases in discretionary spending and therefore demand for our products, and increases in the cost of capital, related thereto, among other affects thereof, on the Company's operations and prospects as a result of increased inflation, tariffs, increasing interest rates, global conflicts and other events;
- the Company's ability to protect its proprietary information and intellectual property (IP);
- the ability of the Company to compete in the iGaming market;
- the effect of current and future regulation, the Company's ability to comply with regulations (both current and future) and potential penalties in the event it fails to comply with such regulations and changes in the enforcement and interpretation of existing laws and regulations and the adoption of new laws and regulations that may unfavorably impact our business;
- the ability to compete against existing and new competitors;

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- the ability to manage expenses associated with sales and marketing and necessary general and administrative and technology investments;
- general consumer sentiment and economic conditions that may affect levels of discretionary customer purchases of the Company's products, including potential
  recessions and global economic slowdowns; and
- other risk factors included under "Risk Factors" in our latest Annual Report on Form 10-K, as amended and Form 10-Q and set forth below, and/or incorporated by reference under "Risk Factors", above.

We identify forward-looking statements by use of terms such as "may," "will," "expect," "anticipate," "estimate," "believe," "plan," "believe," "predict," "envision," "intend," "will," "continue," "potential," "should," "confident," "could" and similar words and expressions, although some forward-looking statements may be expressed differently. You should be aware that our actual results could differ materially from those contained in the forward-looking statements. You should consider carefully the statements included in and incorporated by reference in this prospectus which describe factors that could cause our actual results to differ from those set forth in the forward-looking statements.

The above statements are not the exclusive means of identifying forward-looking statements herein. Although forward-looking statements contained or incorporated by reference in this prospectus reflect our good faith judgment, such statements can only be based on facts and factors currently known to us. Consequently, forward-looking statements are inherently subject to risks and uncertainties and actual outcomes may differ materially from the results and outcomes discussed in the forward-looking statements.

Forward-looking statements speak only as of the date of this prospectus or the date of any document incorporated by reference in this prospectus, and any prospectus supplement and the documents incorporated therein, as applicable. Except to the extent required by applicable law or regulation, we do not undertake any obligation to update forward-looking statements to reflect events or circumstances after the date of this prospectus, or any prospectus supplement, or to reflect the occurrence of unanticipated events.

You should also consider carefully the statements under, and incorporated by reference into, "Risk Factors" and other sections of this prospectus, and the documents we incorporate by reference, and any prospectus supplement and the documents incorporated therein, which address additional facts that could cause our actual results to differ from those set forth in the forward-looking statements. We caution investors not to place significant reliance on the forward-looking statements contained in this prospectus, and the documents we incorporate by reference, or any prospectus supplement and the documents incorporated therein. We undertake no obligation to publicly update or review any forward-looking statements, whether as a result of new information, future developments or otherwise, except as otherwise required by law.

You should read this prospectus and the documents that we reference in this prospectus, and any prospectus supplement and the documents incorporated therein, and those documents we 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 these cautionary statements.

### USE OF PROCEEDS

We will not receive any proceeds from the sale of the shares of our common stock by the selling stockholders from time to time pursuant to this prospectus. The proceeds from the offering are solely for the account of the selling stockholders.

The shares of common stock being offered by the selling stockholders are those previously issued to the selling stockholders pursuant to the First Amendment, Release Agreement and Settlement Agreement, discussed in greater detail above under "Prospectus Summary —First Amendment to Separation and Release Agreement with James N. Woody, —Mutual Settlement and General Release Agreement with Dr. Marlene Krauss; and —Confidential Settlement Agreement and Release with AmTrust and AFSI". We are registering the shares of common stock in order to permit the selling stockholders to offer the shares for resale or other disposition from time to time.

We have prepared this table based on information furnished to us by or on behalf of the selling stockholders. Under the rules of the SEC, beneficial ownership includes shares over which the indicated beneficial owner exercises voting or investment power. Beneficial ownership is determined under Section 13(d) of the Exchange Act, and generally includes voting or investment power with respect to securities, including any securities that grant the selling stockholders the right to acquire common stock within 60 days of May 20, 2025 (the "Date of Determination"). We believe that the selling stockholders have sole voting and investment power with respect to all shares beneficially owned. To our knowledge, none of the selling stockholders are affiliated with a broker-dealer registered under the Exchange Act, except to the extent set forth in the footnotes below.

The shares may be sold by the selling stockholders, by those persons or entities to whom they transfer, donate, devise, pledge or distribute shares or by other successors in interest. The information regarding shares beneficially owned after this offering assumes the sale of all shares offered by the selling stockholders in this prospectus. The selling stockholders may sell less than all of the shares listed in the table. In addition, the shares listed below may be sold pursuant to this prospectus or in privately negotiated transactions. Accordingly, we cannot estimate the number of shares the selling stockholders will sell under this prospectus.

The selling stockholders have not held any position or office or had any other material relationship with us or any of our predecessors or affiliates within the past three years, other than beneficial ownership of the shares described in the table below, except as set forth in the footnotes below.

The selling stockholders have represented to us that they purchased the shares of common stock offered herein for their own account, for investment only and not with a view toward selling or distributing them in violation of the Securities Act, except in sales either registered under the Securities Act, or sales that are exempt from registration. In recognition of the fact that each of the selling stockholders, even though purchasing his, her or its shares for investment, may wish to be legally permitted to sell its shares when it deems appropriate, we agreed with the selling stockholders to file a registration statement to register the resale of the shares. Information regarding the selling stockholders may change from time to time. Any such changed information will be set forth in supplements to this prospectus or amendments to the registration statement of which this prospectus forms a part, if required.

The table below lists the selling stockholders and other information regarding the beneficial ownership of the shares of common stock by each of the selling stockholders. Our knowledge is based on information provided by the selling stockholders as of the Date of Determination.

The selling stockholders may have sold, transferred or otherwise disposed of some or all of the shares of our common stock listed below in exempt or registered transactions since the date on which the information below was provided to us and may in the future sell, transfer or otherwise dispose of some or all of the shares in private placement transactions exempt from, or not subject to the registration requirements of, the Securities Act. We have assumed for purposes of the table below that the selling stockholders will sell all of the common stock being offered hereby pursuant to this prospectus.

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Information about the selling stockholders may change from time to time, including by addition of additional selling stockholders, and if necessary, we will supplement this prospectus accordingly.

		Number of Shares of Common Stock Beneficially Owned Prior to this Offering <sup>(1)(2)</sup>		Number of Shares of Common Stock Being	Beneficial Ov Common Stoc Offerin	ck After this
Name of Selling Stockholder		Number	Percentage	Offered	Number	Percentage
AmTrust Financial Services, Inc.	(3)	509,707	8.9%	509,707		
Dr. Marlene Krauss	(4)	201,991(5)	3.5%	200,000	1,991	*
James N. Woody	(6)	44,350(7)	*	43,166	1,184	*
				752,873		

- \* Less than 1%
- (1) "Beneficial ownership" means that a person, directly or indirectly, has or shares voting or investment power with respect to a security or has the right to acquire such power within 60 days. The number of shares beneficially owned is as of the Date of Determination, and the percentage is based upon 5,695,487 shares of our common stock outstanding as of the Date of Determination.
- (2) Assumes for purposes of the "Beneficial Ownership of Common Stock After this Offering" that (i) all of the shares of common stock to be registered by the registration statement of which this prospectus is a part are sold in this offering and (ii) the selling stockholder do not acquire additional shares of our common stock after the date of this prospectus and prior to completion of this offering. The registration of this offering of shares does not necessarily mean that the selling stockholder will sell all or any portion of the shares covered by this prospectus.
- (3) AFSI has the sole voting and dispositive power with regard to the 509,707 of the Company's common stock and is acting as an advisor on behalf of AmTrust International Underwriters DAC ("AIUDAC"). AIUDAC is a subsidiary of AFSI. Barry Zyskind, the Chairman and Chief Executive Officer of AFSI may directly or indirectly alone or with others have voting and dispositive control with respect to these shares.
- (4) Dr. Krauss is the former Chief Executive Officer and director of KBL Merger Corp. IV, the Company's predecessor (having served in such roles from inception on September 7, 2016, until November 6, 2020), and the principal of KBL IV Sponsor, LLC, the Company's former sponsor.
- (5) On February 21, 2025, as a required condition to the entry the Release Agreement with Dr. Krauss, the Company, the Mr. Blair Jordan, the Company's Chief Executive Officer and director, and Dr. Krauss, entered into a Voting Agreement, whereby Dr. Krauss agreed to vote a total of 200,000 shares of the Company's common stock, as recommended by the Board of Directors of the Company, at any meeting of stockholders or via any written consent of stockholders, which may occur prior to August 21, 2025. In order to enforce the terms of the Voting Agreement, Dr. Krauss provided Mr. Jordan (or his assigns), solely for the benefit of the Company, an irrevocable voting proxy to vote the 200,000 shares pursuant to the guidelines set forth above at any meeting of stockholders or via any written consent of stockholders. As a result of the irrevocable voting proxy, Mr. Jordan may be deemed to beneficially own the 200,000 shares of common stock of the Company held by Dr. Krauss. Except for the limited right to vote such shares pursuant to the Voting Agreement, Mr. Jordan has no dispositive control over the shares, nor any pecuniary interest therein.
- (6) Dr. Woody, is the Company's former Chief Executive Officer and director (serving in such roles from November 6, 2020 until May 7, 2024).
- (7) On February 5, 2025, as a required condition to the entry into the First Amendment with Dr. Woody, the Company, Mr. Jordan and Dr. Woody, entered into a Voting Agreement, whereby Dr. Woody agreed to vote a total of 43,166 shares of the Company's common stock, as recommended by the Board of Directors of the Company, at any meeting of stockholders or via any written consent of stockholders, which may occur prior to February 5, 2026, the date after August 5, 2025, that Dr. Woody has sold all of the shares or the date that the Company terminates the Voting Agreement. In order to enforce the terms of the Voting Agreement, Dr. Woody provided Mr. Jordan (or his assigns), solely for the benefit of the Company, an irrevocable voting proxy to vote the 43,166 shares pursuant to the guidelines set forth above at any meeting of stockholders or via any written consent of stockholders. As a result of the irrevocable voting proxy, Mr. Jordan may be deemed to beneficially own 43,166 of the shares of common stock of the Company held by Dr. Woody, the resale of which are being registered in the registration statement of which this prospectus forms a part. Except for the limited right to vote such shares pursuant to the Voting Agreement, Mr. Jordan has no dispositive control over the shares, nor any pecuniary interest therein.

#### PLAN OF DISTRIBUTION

We are registering shares of common stock held by the selling stockholders to permit the resale of those shares of common stock from time to time after the date of this prospectus. We will not receive any of the proceeds from the sale by the selling stockholders of the shares of common stock. We will bear all fees and expenses incident to our obligation to register the shares of common stock.

Each selling stockholder of the shares of common stock and any of their donees, pledgees, assignees, transferees and other successors-in-interest may, from time to time, in one or more transactions on the Nasdaq Stock Market or any other organized market where our shares of common stock may be traded or in private transactions, sell any or all of their shares of common stock covered hereby through underwriters, dealers or agents, directly to one or more purchasers or through a combination of any such methods of sale. These sales may be at fixed or negotiated prices. The selling stockholders may distribute the shares of our common stock offered hereby from time to time in one or more transactions:

- at a fixed price or prices, which may be changed;
- at market prices prevailing at the time of sale;
- at varying prices determined at the time of sale;
- · at prices related to such prevailing market prices; or
- at negotiated prices.

The selling stockholders may use any one or more of the following methods when selling the shares offered hereby:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- . one or more block trades in which the broker-dealer will attempt to sell such shares as agent or principal of all of such shares held by the selling stockholder;
- purchases by a broker-dealer as principal and resale by such broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- · put or call options transactions;

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- · through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- short sales
- agreements between broker-dealers and the selling stockholder to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

If the selling stockholders effect such transactions by selling shares of common stock offered hereby to or through 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 common stock offered hereby for whom they may act as agent or to whom they may sell as principal (which discounts, concessions or commissions as to particular underwriters, broker-dealers or agents may be in excess of those customary in the types of transactions involved). In connection with sales of the shares of common stock offered hereby in the course of hedging in positions they assume. The selling stockholders may also sell shares of common stock offered hereby short sales of the short sales. The selling stockholders may also loan or pledge shares of common stock offered hereby to broker-dealers that in turn may sell such shares.

Broker-dealers engaged by the selling stockholders may arrange for other broker-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholders (or, if any broker-dealer acts as agent for the purchaser of securities, from the purchaser) in amounts to be negotiated, but, except as set forth in a supplement to this prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with FINRA Rule 2121; and in the case of a principal transaction a markup or markdown in compliance with FINRA Rule 2121.

The selling stockholders may pledge or grant a security interest in some or all of the shares of common stock offered hereby and owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell such shares of common stock from time to time pursuant to this prospectus or any amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act, amending, if necessary, the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus. The selling stockholders also may transfer and donate the shares of common stock offered hereby in other circumstances, in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling stockholders and any broker-dealer participating in the distribution of the shares of common stock offered hereby may be deemed to be <u>tinderwriters</u>" within the meaning of the Securities Act, and any commission paid, or any discounts or concessions allowed to, any such broker-dealer may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of common stock offered hereby is made, a prospectus supplement, if required, will be distributed which will set forth the aggregate amount of shares of common stock being offered and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting compensation from the selling stockholders and any discounts, commissions or concessions allowed

The selling stockholders will act independently of us in making decisions with respect to the timing, manner, and size of each resale or other transfer. We do not know of specific arrangements by the selling stockholders for the sale of their shares. The aggregate proceeds to the selling stockholders from any sale of the shares offered by them will be the purchase price of the shares less discounts or commissions, if any. The selling stockholders reserve the right to accept and, together with its respective agents from time to time, to reject, in whole or in part, any proposed purchase of the shares to be made directly or through agents. We will not receive any of the proceeds from any such sale.

Under the securities laws of some states, the shares of common stock offered hereby may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of common stock offered hereby may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

There can be no assurance that the selling stockholders will sell any or all of the shares of common stock registered pursuant to the registration statement of which this prospectus forms a part.

The selling stockholders and any other person participating in such distribution will be subject to applicable provisions of the Exchange Act, and the rules and regulations thereunder, including, without limitation, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of common stock offered hereby by the selling stockholders and any other participating person. Regulation M may also restrict the ability of any person engaged in the distribution of the shares of common stock offered hereby to engage in market-making activities with respect to the shares of common stock offered hereby. All of the foregoing may affect the marketability of the shares of common stock offered hereby and the ability of any person or entity to engage in market-making activities with respect to the shares of common stock offered hereby.

Once sold under the registration statement, of which this prospectus forms a part, the shares of common stock offered hereby will be freely tradable in the hands of persons other than our affiliates.

The shares of common stock may also be sold under Rule 144 under the Securities Act, or any other exemption from registration under the Securities Act, if available for a selling stockholder, rather than under this prospectus. Each selling stockholder has the sole and absolute discretion not to accept any purchase offer or make any sale of shares of common stock if it deems the purchase price to be unsatisfactory at any particular time.

The selling stockholders also may transfer the shares of common stock offered hereby in other circumstances, in which case the transferees or other successors-in-interest will be the selling beneficial owners for purposes of this prospectus.

We agreed to keep the registration statement of which this prospectus is a part continuously effective until such time as AFSI no longer holds any Settlement Shares. The shares of common stock will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the shares of common stock covered hereby may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

The Company is required to pay certain fees and expenses incurred by the Company incident to the registration of the securities.

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## DESCRIPTION OF CAPITAL STOCK

# **Authorized Capital Stock**

The following summary of the material terms of our capital stock is not intended to be a complete summary of the rights and preferences of such securities. We urge you to read our Second Amended and Restated Certificate of Incorporation, as amended, in its entirety, for a complete description of the rights and preferences of our securities.

As of the date of this prospectus, we have 100,000,000 authorized shares of common stock, \$0.0001 par value per share and 5,000,000 shares of preferred stock, \$0.0001 par value per share, of which 1,000,000 shares have been designated as Series A Convertible Preferred Stock (of which none are outstanding), of which one share of preferred stock has been designated as a Class C Special Voting Share, of which none are outstanding, and of which 1,000,000 shares have been designated as Series B Convertible Preferred Stock, of which no shares are outstanding.

As the date of this prospectus, there were 5,695,487 shares of common stock outstanding held by approximately 125 holders of record.

## Common Stock

Except as otherwise required by law or as otherwise provided in any certificate of designation for any series of preferred stock, the holders of our common stock possess all voting power for the election of our directors and all other matters requiring stockholder action and will at all times vote together as one class on all matters submitted to a vote of our stockholders. Holders of common stock are entitled to one vote per share on matters to be voted on by stockholders and do not have the right to cumulate votes in the election of directors.

Holders of common stock will be entitled to receive dividends and other distributions, if any, in amounts declared from time to time by our Board of Directors in its discretion out of funds legally available therefor and shall share equally on a per share basis in these dividends and distributions.

In the event of our voluntary or involuntary liquidation, dissolution, distribution of assets or winding-up, the holders of the common stock will be entitled to receive an equal amount per share of all of our assets of whatever kind available for distribution to stockholders, after the rights of the holders of the preferred stock, if any, have been satisfied

Our stockholders have no preemptive or other subscription rights and there are no sinking fund or redemption provisions applicable to our common stock.

Our Board of Directors is divided into two classes, with only one class of directors being elected in each year and each class generally serving a two-year term.

# Preferred Stock

Our Certificate of Incorporation provides that shares of preferred stock may be issued from time to time in one or more series. Our Board of Directors will be authorized to

fix the voting rights, if any, designations, powers, preferences, the relative, participating, optional or other special rights and any qualifications, limitations and restrictions thereof, applicable to the shares of each series. Our Board of Directors will be able to, without stockholder approval, issue preferred stock with voting and other rights that could adversely affect the voting power and other rights of the holders of the common stock and could have anti-takeover effects. The ability of our Board of Directors to issue preferred stock without stockholder approval could have the effect of delaying, deferring or preventing a change of control of the Company or the removal of existing management.

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### Certain Anti-Takeover Provisions of Delaware Law and our Certificate of Incorporation and Bylaws

We are subject to the provisions of Section 203 of the Delaware General Corporation Law ("<u>DGCL</u>") regulating corporate takeovers. This statute prevents certain Delaware corporations, under certain circumstances, from engaging in a "<u>business combination</u>" with:

- a stockholder who owns 15% or more of our outstanding voting stock (otherwise known as an 'interested stockholder');
- an affiliate of an interested stockholder; or
- an associate of an interested stockholder, for three years following the date that the stockholder became an interested stockholder.

A "business combination" includes a merger or sale of more than 10% of our assets. However, the above provisions of Section 203 do not apply if:

- our Board of Directors approves the transaction that made the stockholder an 'interested stockholder," prior to the date of the transaction;
- after the completion of the transaction that resulted in the stockholder becoming an interested stockholder, that stockholder owned at least 85% of our voting stock outstanding at the time the transaction commenced, other than statutorily excluded shares of common stock; or
- on or subsequent to the date of the transaction, the business combination is approved by our Board of Directors and authorized at a meeting of our stockholders, and not by written consent, by an affirmative vote of at least two-thirds of the outstanding voting stock not owned by the interested stockholder.

Our Second Amended and Restated Certificate of Incorporation provides that our Board of Directors be classified into two classes of directors. As a result, in most circumstances, a person can gain control of our Board of Directors only by successfully engaging in a proxy contest at two or more annual meetings.

Our authorized but unissued common stock and preferred stock are available for future issuances without stockholder approval and could be utilized for a variety of corporate purposes, including future offerings to raise additional capital, acquisitions and employee benefit plans. The existence of authorized but unissued and unreserved common stock and preferred stock could render more difficult or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

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## LEGAL MATTERS

The validity of the securities offered by this prospectus have been passed upon for us by The Loev Law Firm, PC. David M. Loev, the President and sole owner of The Loev Law Firm, PC, beneficially owns less than 1% of the outstanding shares of our common stock.

### **EXPERTS**

The consolidated financial statements of 180 Life Sciences Corp. and subsidiaries as of December 31, 2024, and the year ended December 31, 2024 and the related notes, are incorporated into this prospectus by reference from 180 Life Science Corp.'s Annual Report on Form 10-K for the year ended December 31, 2024, have been audited by M&K CPA's, PLLC, an independent registered public accounting firm, as set forth in their report thereon, and have been incorporated in this prospectus and Registration Statement in reliance upon such reports given on the authority of such firm as an expert in accounting and auditing.

The consolidated financial statements of 180 Life Sciences Corp. and subsidiaries as of December 31, 2023, and the year ended December 31, 2023 and the related notes, are incorporated into this prospectus by reference from 180 Life Science Corp.'s Annual Report on Form 10-K for the year ended December 31, 2024, have been audited by Marcum LLP, an independent registered public accounting firm, as set forth in their report thereon, and have been incorporated in this prospectus and Registration Statement in reliance upon such reports given on the authority of such firm as an expert in accounting and auditing.

Except as set forth under "Legal Matters", no expert or counsel named in this prospectus as having prepared or certified any part of this prospectus or having given an opinion upon the validity of the securities being registered or upon other legal matters in connection with the registration or offering of the securities was employed on a contingency basis, or had, or is to receive, any interest, directly or indirectly, in our Company or any of our parents or subsidiaries, nor was any such person connected with us or any of our parents or subsidiaries, if any, as a promoter, managing or principal underwriter, voting trustee, director, officer, or employee.

## WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at http://www.sec.gov. Copies of certain information filed by us with the SEC are also available, free of charge, on the "Investors"—"SEC Filings"—"All SEC Filings" page of our website at www.180lifesciences.com. Our website is not a part of this prospectus and is not incorporated by reference in this prospectus.

This prospectus is part of a registration statement that we filed with the SEC. This prospectus omits some information contained in the registration statement in accordance with SEC rules and regulations. You should review the information and exhibits in the registration statement for further information about us and our subsidiaries and the securities we are offering. Statements in this prospectus concerning any document we filed as an exhibit to the registration statement or that we otherwise filed with the SEC are not intended to be comprehensive and are qualified by reference to these filings. You should review the complete document to evaluate these statements.

### INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to "incorporate by reference" into this prospectus the information in other documents that we file with it. This means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be a part of this prospectus, and information in documents that we file later with the SEC will automatically update and supersede information contained in documents filed earlier with the SEC or contained in this prospectus.

We incorporate by reference in this prospectus (i) the documents listed below, (ii) all documents that we file with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial filing of the registration statement of which this prospectus is included and prior to the effectiveness of such registration statement, and (iii) any future filings that we may make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of the Exchange Act prior to the termination of the offering under this prospectus; provided, however, that we are not incorporating, in each case, any documents or information deemed to have been furnished and not filed in accordance with SEC rules (including Items 2.02 and 7.01 of Form 8-K):

- (a) The Company's Annual Report on Form 10-K for the year ended December 31, 2024, filed with the SEC on March 31, 2025, as amended by Amendment No. 1 thereto filed with the SEC on April 25, 2025, and Amendment No. 2 thereto filed with the SEC on May 8, 2025 (File No. 001-38105);
- (b) The Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2025, filed with the SEC on May 15, 2025;
- (c) The Company's Current Reports on Form 8-K and 8-K/A (other than information furnished rather than filed) filed with the SEC on January 2, 2025, February 7, 2025, February 21, 2025, April 1, 2025, April 9, 2025, April 30, 2025 and May 1, 2025 (File No. 001-38105); and
- (d) The description of the Company's common stock contained in our Annual Report on Form 10-K for the year ended December 31, 2022, filed with the SEC on March 31, 2023, as Exhibit 4.6 (File No. 001-38105), including any amendment or report filed for the purpose of updating such description.

Upon request, we will provide, without charge, to each person, including any beneficial owner, to whom a copy of this prospectus is delivered, a copy of the documents incorporated by reference into this prospectus but not delivered with the prospectus. You may make a request for copies of these filings, and any exhibits we have specifically incorporated by reference as an exhibit in this prospectus, at no cost by writing or by telephone. Requests should be directed to: Attention: Corporate Secretary, 3000 El Camino Real, Bldg. 4, Suite 200, Palo Alto, California 94306, telephone (650) 285-2387. The documents incorporated by reference may be accessed on the "Investors"—"SEC Filings"—"All SEC Filings" page of our website at www.180lifesciences.com. We do not incorporate the information on our website into this prospectus or any supplement to this prospectus and you should not consider any information on, or that can be accessed through, our website as part of this prospectus or any supplement to this prospectus (other than those filings with the SEC that we specifically incorporate by reference into this prospectus or any supplement to this prospectus).

You should rely only on the information contained in, or incorporated by reference into, this prospectus, in any accompanying prospectus supplement, or in any free writing prospectus filed by us with the SEC. We have not authorized anyone to provide you with different or additional information. We are not offering to sell or soliciting any offer to buy any securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information in this prospectus or in any document incorporated by reference is accurate as of any date other than the date on the front cover of the applicable document.

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752,873 Shares of Common Stock
PROSPECTUS

May 20, 2025