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

FORM S-1
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

#### Actelis Networks, Inc.

	(Exact Name of Registrant as Specified in Its Charter)	
Delaware	3669	52-2160309
(State or Other Jurisdiction of Incorporation or Organization)	(Primary Standard Industrial Classification Code Number)	(I.R.S. Employer Identification Number)
	Actelis Networks, Inc.	
	4039 Clipper Court	
	Fremont, CA 94538 (510) 545-1045	
(Address, Including Zip Cod	le, and Telephone Number, Including Area Code, of Registrant's	Principal Executive Offices)
	Tuvia Barlev	
Cl	hief Executive Officer and Chairman of the Board of Director	rs
	Actelis Networks, Inc.	
	4039 Clipper Court Fremont, CA 94538	
	(510) 545-1045	
(Name, Address, Incl	luding Zip Code, and Telephone Number, Including Area Code, o	of Agent For Service)
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Approximate date of commencement of pro	posed sale to the public: As soon as practicable after the effecti	ve date of this registration statement.
If any of the securities being registered on this the following box. $\boxtimes$	s Form are to be offered on a delayed or continuous basis pursua	ant to Rule 415 under the Securities Act of 1933 check
	curities for an offering pursuant to Rule 462(b) under the Securier effective registration statement for the same offering. $\Box$	rities Act, please check the following box and list the
If this Form is a post-effective amendment fi statement number of the earlier effective registration sta	iled pursuant to Rule 462(c) under the Securities Act, check the atement for the same offering. $\Box$	following box and list the Securities Act registration
If this Form is a post-effective amendment fi statement number of the earlier effective registration sta	aled pursuant to Rule 462(d) under the Securities Act, check the atement for the same offering. $\Box$	e following box and list the Securities Act registration
	nt is a large accelerated filer, an accelerated filer, a non-accelerated filer," "accelerated filer," "smaller reporting company," an	
Large accelerated filer □	Accelerated filer	
Non-accelerated filer	Smaller reporting company	$\boxtimes$
	Emerging growth company	
If an emerging growth company, indicate by c financial accounting standards provided pursuant to Sec	sheck mark if the registrant has elected not to use the extended traction $7(a)(2)(B)$ of the Securities Act. $\Box$	ansition period for complying with any new or revised
file a further amendment which specifically states th	ration Statement on such date or dates as may be necessary nat this Registration Statement shall thereafter become effect Statement shall become effective on such date as the Securi	tive in accordance with Section 8(a) of the Securities

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.



#### Actelis Networks, Inc.

#### 6,617,897 Shares of Common Stock

This prospectus relates to the resale, from time to time, by the selling stockholders identified herein (the "Selling Stockholders") of up to 6,617,897 shares of common stock of Actelis Networks, Inc., par value \$0.0001 per share (the "Common Stock"), consisting of (a) an aggregate of 1,626,019 unregistered shares of Common Stock (the "Shares"), (b) up to an aggregate of 1,626,019 shares of Common Stock that are issuable upon exercise of an unregistered long-term warrant (the "Series A-3 Warrant"), (c) up to an aggregate of 3,252,038 shares of Common Stock that are issuable upon exercise of an unregistered short-term warrant (the "Series A-4 Warrant," and together with the Series A-3 Warrant, the "Common Warrants"), and (d) up to 113,821 shares of Common Stock that are issuable upon the exercise of certain private placement warrants (the "Placement Agent Warrants", together with the Series A-3 Warrant, and the Series A-4 Warrant, the "Warrants") issued to designees of H.C. Wainwright & Co., LLC, our placement agent (the "Placement Agent") pursuant to an engagement letter in connection with the Purchase Agreement and the offering contemplated thereunder. The shares of Common Stock and the Common Warrants were issued and sold to certain accredited investors in a private placement that closed on July 2, 2025, as further described below under "Prospectus Summary — Recent Developments — July 2025 Private Placement."

We are not selling any common stock under this prospectus and will not receive any of the proceeds from the sale or other disposition of shares by any of the selling stockholders, however, we will receive proceeds from the exercise of any Warrants for cash.

The selling stockholders or its transferees, pledgees, assignees, or successors-in-interest may offer and sell or otherwise dispose of the shares of common stock described in this prospectus 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 stockholder will bear all commissions and discounts, if any, attributable to the sales of shares. We will bear all other costs, expenses, and fees in connection with the registration of the shares. See "Plan of Distribution" beginning on page 14 for more information about how a selling stockholder may sell or dispose of the shares of Common Stock.

Our common stock is traded on the Nasdaq Capital Market under the symbol "ASNS." On July 7, 2025, the closing price of our common stock on the Nasdaq Capital Market was \$0.58 per share.

Investing in our securities involves a high degree of risk. You should read this prospectus supplement and the accompanying prospectus as well as the information incorporated herein and therein by reference carefully before you make your investment decision. See "Risk Factors" beginning on page 5 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is

, 2025.

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## ABOUT THIS PROSPECTUS

Unless the context indicates otherwise, references in this prospectus to "Actelis," "we," "us," "our," "the Company," "our company" and similar terms refer to Actelis Networks, Inc., a Delaware corporation. Actelis has a wholly-owned subsidiary, Actelis Networks Israel, Ltd, an Israeli company.

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission (the "SEC"). The selling stockholders named in this prospectus may from time to time sell the securities described in the prospectus. You should read this prospectus together with the more detailed information regarding our company, our Common stock, and our financial statements and notes to those statements that appear elsewhere in this prospectus and any applicable prospectus supplement together with the additional information that we incorporate in this prospectus by reference, which we describe under the heading "Where You Can Find More Information."

You should rely only on the information contained in, or incorporated by reference in, this prospectus and in any accompanying prospectus supplement. We have not authorized anyone to provide you with different information from that contained in, or incorporated by reference in, this prospectus. You should not assume that the information in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front of those documents or that any document incorporated by reference is accurate as of any date other than its filing date. You should not consider this prospectus to be an offer or solicitation relating to the securities in any jurisdiction in which such an offer or solicitation relating to the securities is not authorized. Furthermore, you should not consider this prospectus to be an offer or solicitation relating to the securities if the person making the offer or solicitation is not qualified to do so, or if it is unlawful for you to receive such an offer or solicitation.

#### CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain certain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act"). We have tried, whenever possible, to identify these forward-looking statements using words such as "may," "will," "expect," "believe," "estimate," "anticipate," "intend," "continue," "plan," "predict," "seek," "should," "would," "could," "potential," "ongoing," and similar expressions to identify forward-looking statements, whether in the negative or the affirmative. These statements reflect our current beliefs and are based on information currently available to us. Accordingly, such forward-looking statements involve known and unknown risks, uncertainties and other factors which could cause our actual results, performance or achievements to differ materially from those expressed in, or implied by, such statements. Forward-looking statements contained herein include, but are not limited to, statements about:

- our history of losses and need for additional capital to fund our operations and our ability to obtain additional capital on acceptable terms, or at all;
- our ability to protect our intellectual property and continue to innovate;
- our success in retaining or recruiting, or changes required in, our officers, key employees or directors;
- the potential insufficiency of our disclosure controls and procedures to detect errors or acts of fraud;
- the accuracy of our estimates regarding expenses, future revenues, and capital requirements;
- the success of competing products or technologies that are or may become available;
- our ability to grow the business due to the uncertainty resulting from the COVID-19 pandemic or any future pandemic;
- our ability to comply with complex and increasing regulations by governmental authorities;
- · our ability to regain and maintain compliance with continued listing requirements of the Nasdaq Capital Market;
- our ability to continue as a going concern;
- statements as to the impact of the political and security situation in Israel on our business, including due to the number of armed conflicts between Israel and Hamas (an Islamist militia and political group in the Gaza Strip), Hezbollah (an Islamist militia and political group in Lebanon) and Iran;
- · our public securities' potential liquidity and trading; and
- · our expectations regarding the period during which we qualify as an emerging growth company under the JOBS Act.

Forward-looking statements are based on our management's current expectations, estimates, forecasts and projections about our business and the industry in which we operate and our management's beliefs and assumptions, and are not guarantees of future performance or development and involve known and unknown risks, uncertainties and other factors that are in some cases beyond our control. As a result, any or all of our forward-looking statements herein may turn out to be inaccurate. Important factors that may cause actual results to differ materially from current expectations include, among other things, those listed under "Risk Factors," "Use of Discussion and Analysis of Financial Condition and Results of Operations," "Business" and elsewhere herein or by incorporation by reference. Potential investors are urged to consider these factors carefully in evaluating the forward-looking statements. You should read thoroughly this prospectus and the documents that we refer to with the understanding that our actual future results may be materially different from and worse than what we expect. We qualify all of our forward-looking statements by these cautionary statements.

The forward-looking statements included in this prospectus speak only as of the date of this prospectus. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that future results, levels of activity, performance and events and circumstances reflected in the forward-looking statements will be achieved or will occur. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future. You should, however, review the factors and risks we describe in the reports we will file from time to time with the SEC after the date of this prospectus. See "Where You Can Find More Information."

On April 19, 2023, we effected a reverse stock split of our shares of common stock at the ratio of 1-for-10. Unless indicated otherwise by the context, all common stock, option, warrant and per share amounts, as well as share prices appearing in this prospectus (or incorporated by reference herein) have been adjusted to give retroactive effect to the stock split for all periods presented.

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# PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus. Because this is only a summary, it does not contain all of the information that may be important to you. You should read this entire prospectus and the information incorporated by reference herein, including, among other things, the matters set forth under "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements contained in our Annual Report on Form 10-K for the fiscal year ended December 31, 2024 before making your investment decision. This prospectus contains forward-looking statements and information relating to Actelis Networks, Inc. See "Cautionary Note Regarding Forward-Looking Statements" on page iii of this prospectus.

Actelis Networks, Inc. ("Actelis," "we," "us," "our," "the Company," "our company") is a market leader in cyber-hardened, rapid-deployment networking solutions for wide-area IoT applications including federal, state and local government, intelligent traffic systems ("ITS"), military, utility, rail, telecom and campus applications. Our unique portfolio of hybrid fiber, environmentally hardened aggregation switches, high density Ethernet devices, advanced management software and cyber-protection capabilities, unlocks the hidden value of essential networks, delivering safer connectivity for rapid, cost-effective deployment.

Our networking solutions use a combination of newly deployed fiber infrastructure and existing copper and coaxial lines which our patented technology can upgrade to Fiber-grade to jointly create what we believe to be a highly cost-effective, secure, and quick-to-deploy network. Our patent protected hybrid fiber networking solutions deliver excellent communication over fiber to locations that may be easy to reach with new fiber. However, for locations that are difficult, or too costly to reach with fiber, we can upgrade existing copper lines to deliver cyber-hardened, high-speed connectivity without needing to replace the existing copper infrastructure with new

fiber. We believe that such hybrid fiber copper networking solution has distinct advantages in most real-life installations, while providing significant budget savings and accelerating deployment of modern IoT networks, as based on our experience, most IoT projects have challenging, hard to reach with fiber locations which may explode such projects' timeline and budgets. We believe that our solutions can provide connectivity over either fiber or copper with speeds of up to multi-Gigabit communication, while supporting Fiber-grade reliability and quality.

A primary focus of ours is to provide our customers with a cyber-secure network solution. We currently offer Triple-Shield protection of data delivered with coding, scrambling and encryption of the network traffic. We also provide secure, encrypted access to our network management software, and are working to further enhance system-level and device-level software protection. We are also working to introduce additional capabilities for network-wide cyber protection software as an additional SW and license-based services.

When high speed, long reach, reliable and secure connectivity is required, network operators usually resort to using wireline communication over physical communication lines such as fiber, coax, and copper, rather than wireless communication that is more limited in performance, reliability, reach and security. However, new fiber wireline infrastructure is costly to deploy, involves lengthy civil works to install, and, based on our internal calculations, often accounts for more than 50% of total cost of ownership (ToC) and time to deploy wide-area IoT projects.

Providing new fiber connectivity to hard-to-reach locations is especially costly and time-consuming, often requiring permits for boring, trenching, and right-of-way, sometimes done over many miles. Connecting such hard-to-reach locations may cause significant delays and budget overruns in IoT projects. Our solutions aim to solve these challenges by instantly enhancing performance of such existing copper and coax infrastructure to fiber-grade performance, through the use of advanced signal processing and unique, patented network architecture, without the need to run new fiber to hard-to-reach locations; thus, effectively accelerating deployment of many IoT projects, as we estimate, sometimes from many months to only days. The result for the network owner is a hybrid network that optimizes the use of both new Fiber (where available) as well as upgraded, fiber-grade copper and coax that is now modernized, digitized and cyber-hardened. This unique hybrid network approach is making IoT projects often significantly more affordable, fast to deploy and predictable to plan and budget.

In addition, our solutions can also provide power over existing copper and coax lines to remotely power up network elements and IoT components connected to them (like cameras, small cell and Wi-Fi base stations sensors etc.). Connecting power lines to millions of IoT locations can be costly and very time consuming as well (similar to data connectivity, for the same reason — need for civil works). By offering the ability to combine power delivery over the same existing copper and coax lines that we use for high-speed data, we believe our solutions are solving yet another important challenge in connecting hard-to-reach locations. We believe that combining communication and power over the same existing lines is particularly important to help connect many fifth generation, or 5G, small cells and Wi-Fi base stations, as high cost of connectivity and power is often slowing their deployment.

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Since our inception, our business was focused on serving telecommunication service providers, also known as Telcos, to provide connectivity for enterprises and residential customers. Our products and solutions have been deployed with more than 100 telecommunication service providers worldwide, in enterprise, residential and mobile base station connectivity applications. In recent years, as we have further developed our technology and introduced additional products, we turned our focus on serving the wide-area IoT, federal and DoD markets, as well as multi-dwelling units, and introduced, in 2024, our cyber-aware networking solutions for IoT markets as well

# **Recent Developments**

July 2025 Private Placement

On June 30, 2025, we entered into a securities purchase agreement (the "Purchase Agreement") with certain accredited investors (the "Investors"), pursuant to which we agreed to issue and sell to the Investors in a private placement (the "July 2025 Private Placement" or the "Offering") (a) 1,626,019 shares of Common Stock, (b) Series A-3 warrants to purchase up to 1,626,019 shares of Common Stock, and (c) Series A-4 Warrants to purchase up to 3,252,038 shares of Common Stock, for a purchase price of \$0.615 per share and related Common Warrants, for a total aggregate gross proceeds of approximately \$1 million. The July 2025 Private Placement closed on July 2, 2025.

The Series A-3 Warrants have an exercise price of \$0.615 per share, are exercisable commencing on the effective date of shareholder approval (the "Shareholder Approval Date") of the issuance of the shares issuable upon exercise of the Common Warrants ("Shareholder Approval") and expire five years following the Shareholder Approval Date.

The Series A-4 Warrants have an exercise price of \$0.615 per share, are exercisable commencing on the Shareholder Approval Date and expire eighteen months following the Shareholder Approval Date.

Under the terms of the Common Warrants, the Selling Stockholders may not exercise the warrants to the extent such exercise would cause the Investor, together with its affiliates and attribution parties, to beneficially own a number of shares of common stock which would exceed 4.99% (or, at such Investor's option upon issuance, 9.99%), of the Company's then outstanding Common Stock following such exercise, excluding for purposes of such determination shares of Common Stock issuable upon exercise of such warrants which have not been exercised.

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H.C. Wainwright & Co., LLC acted as the Placement Agent for the issuance and sale of the Securities. The Company has agreed to pay up to an aggregate cash fee equal to 7.0% of the gross proceeds received by the Company from the Offering. The Company also agreed to pay the Placement Agent \$35,000 for non-accountable expenses and a management fee equal to 1.0% of the gross proceeds raised in the Offering. The Company also agreed to issue to the Placement Agent, or its designees, Placement Agent Warrants to purchase up to 7.0% of the aggregate number of the shares of Common Stock sold to the Investors (or warrants to purchase up to 113,821 shares of Common Stock) at an exercise price per share of \$0.7688 which will be exercisable commencing on the Shareholder Approval Date and a have term of five years after the Shareholder Approval Date (the "July 2025 Placement Agent Warrants," and collectively with the Common Warrants, the "July 2025 Warrants"). The July 2025 Placement Agent Warrants and the shares of Common Stock issuable upon exercise thereof, will be issued in reliance on the exemption from registration provided by Section 4(a)(2) of the Securities Act as transactions not involving a public offering and in reliance on similar exemptions under applicable state laws.

Nasdaq Listing Compliance

On August 25, 2023, we received a notification letter from the Listing Qualifications Staff (the "Staff") of the Nasdaq Stock Market LLC ("Nasdaq") indicating that we are not in compliance with Nasdaq Listing Rule 5550(b)(1) due to our failure to maintain a minimum of \$2,500,000 in shareholders' equity (the "Minimum

Shareholders' Equity Requirement") or any alternatives to such requirement. In order to maintain our listing on the Nasdaq Capital Market, we submitted a plan of compliance addressing how we intended to regain compliance. On March 27, 2024, we received a delist determination letter from Nasdaq advising us that the Staff had determined to delist our securities from Nasdaq due to non-compliance with the Minimum Shareholders' Equity Requirement, unless we timely request a hearing before the Nasdaq Hearings Panel (the "Panel"). We timely requested a hearing before the Panel.

On August 27, 2024, we received formal written notice from Nasdaq confirming that we have evidenced compliance with all applicable criteria for continued listing on Nasdaq as set forth in Nasdaq Listing Rule 5550, including the Minimum Shareholders' Equity Requirement. In accordance with Nasdaq Listing Rule 5815(d)(4) (B), we will remain subject to a panel monitor for equity compliance through August 27, 2025. As of the date of this filing, we believe that we are not in compliance with the Minimum Shareholders' Equity Requirement.

On May 20, 2024, Nasdaq notified us that we were not in compliance with the minimum bid price requirements set forth in Nasdaq Listing Rule 5550(a)(2), which requires our common stock to maintain a minimum bid price of \$1.00 per share. On June 20, 2024, we received a letter from Nasdaq that, for the 10 consecutive business days from June 5, 2024 to June 28, 2024, the closing bid price of the Company's common stock had been at \$1.00 per share or greater. Accordingly, we have regained compliance with Nasdaq Listing Rule 5550(a)(2) and Nasdaq considers the prior bid price deficiency matter now closed.

In addition, on May 12, 2025, Nasdaq notified us (the "Notification Letter") that we were not in compliance with the minimum bid set forth in Nasdaq Listing Rule 5550(a)(2), which requires our common stock to maintain a minimum bid price of \$1.00 per share. The Notification Letter has no immediate effect on the listing or trading of our common stock on Nasdaq and, at this time, the common stock will continue to trade on Nasdaq under the symbol "ASNS".

The Notification Letter provides that we have 180 calendar days, or until November 10, 2025, to regain compliance with Nasdaq Listing Rule 5550(a)(2). To regain compliance, our common stock must have a closing bid price of at least \$1.00 per share for a minimum of 10 consecutive business days. If we do not regain compliance by November 10, 2025, an additional 180 days may be granted to regain compliance, so long as we meet certain listing criteria. If we do not qualify for the second compliance period or fail to regain compliance during the second 180-day period, then Nasdaq will notify us of its determination to delist our common stock, at which point we will have the opportunity to appeal the delisting determination to a Hearings Panel.

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#### THE OFFERING

**Shares of common stock currently outstanding** 9,211,797 shares of common stock.

Securities offered by the selling stockholders

Up to 6,617,897 shares of the Company's common stock, par value \$0.0001 per share, consisting of: (i) up to 1,626,019 shares of our common stock, (ii) up to 1,626,019 shares of our common stock issuable upon

exercise of Series A-3 Warrants, (iii) 3,252,038 shares of common stock issuable upon exercise of Series A-4 Warrants, and (iv) 113,821 shares of Common Stock issuable upon the exercise of the July 2025

Placement Agent Warrants.

**Shares of Common Stock to be Outstanding Assuming** 

**Exercise of the Warrants** 

15,829,694 shares of Common Stock.

Selling Stockholders All of the shares of our common stock are being offered by the selling stockholders. See "Selling

Stockholders" on page 7 of this prospectus for more information on the selling stockholders.

Plan of Distribution The selling stockholders will determine when and how they will sell the common stock covered by this

prospectus. See the "Plan of Distribution" section of this prospectus.

Use of Proceeds We will not receive any proceeds from the sale of the Common Stock by the selling stockholders. All net proceeds from the sale of the Common Stock covered by this prospectus will go to the selling stockholders.

However, we may receive the proceeds from any exercise of warrants if the selling stockholders do not exercise their warrants on a cashless basis, if and when exercised. See the section of this prospectus titled

"Use of Proceeds."

**Risk Factors** See "Risk Factors" and other information appearing elsewhere in this prospectus for a discussion of factors

you should carefully consider before deciding whether to invest in our securities.

Listings Our common stock is listed on the Nasdaq Capital Market under the symbol "ASNS."

Unless otherwise indicated, all information in this prospectus (i) assumes no exercise of the outstanding warrants described above, and (ii) gives retroactive effect to the 1-for-10 reverse stock split effected on April 19, 2023.

# Corporate Information

We were incorporated in Delaware in 1998. We completed our initial public offering on May 17, 2022, and our common stock is currently listed on the Nasdaq Global Select Market under the symbol "ASNS." Our principal executive offices are located at 4039 Clipper Court, Fremont, CA 94538, and our telephone number is (510)-545-1040. The information contained on our website and available through our website is not incorporated by reference into and should not be considered a part of this prospectus, and the reference to our website in this prospectus is an inactive textual reference only.

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#### RISK FACTORS

An investment in our securities involves a high degree of risk. You should carefully consider the risk factors set forth in our most recent Annual Report on Form 10-K on file with the SEC, which is incorporated by reference into this prospectus, as well as the following risk factors, which supplement or augment the risk factors set forth in our Annual Report on Form 10-K. Before making an investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus. The risks and uncertainties not presently known to us or that we currently deem immaterial may also materially harm our business, operating

results and financial condition and could result in a complete loss of your investment.

Sales of substantial amounts of our Common Stock by a selling stockholder, or the perception that these sales could occur, could adversely affect the price of our Common Stock.

The sale by the selling stockholders of a significant number of shares of Common Stock could have a material adverse effect on the market price of our Common Stock. In addition, the perception in the public markets that the selling stockholder may sell all or a portion of its shares as a result of the registration of such shares for resale pursuant to this prospectus could also in and of itself have a material adverse effect on the market price of our Common Stock. We cannot predict the effect, if any, that market sales of those shares of Common Stock or the availability of those shares of Common Stock for sale will have on the market price of our Common Stock.

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#### USE OF PROCEEDS

We are not selling any Common Stock under this prospectus and we will not receive any proceeds from the sale of the Common Stock by the selling stockholders. All net proceeds from the sale of the Common Stock covered by this prospectus will go to the selling stockholders. We expect that the selling stockholders will sell their Common Stock as described under "Plan of Distribution."

We may receive proceeds from the exercise of the Common Warrants to the extent that these warrants are exercised for cash by the selling stockholders. Warrants, however, are exercisable on a cashless basis under certain circumstances. If all of the Warrants mentioned above were exercised for cash in full, the gross proceeds would be approximately \$3.09 million. We intend to use the net proceeds of such warrant exercise, if any, for general corporate purposes. Pending such uses, we intend to invest the net proceeds in bank deposits. We can make no assurances that any of the warrants will be exercised, or if exercised, that they will be exercised for cash, the quantity which will be exercised or in the period in which they will be exercised.

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#### SELLING STOCKHOLDERS

The shares of common stock being offered by the selling stockholders are those shares of common stock issuable upon exercise of the July 2025 Warrants, and July 2025 Placement Agent Warrants previously issued in connection with the July 2025 Private Placement. For additional information regarding the issuance of those shares of common stock and warrants, see "Prospectus Summary — Recent Developments — July 2025 Private Placement" above. We are registering the shares of common stock in order to permit the selling stockholders to offer the shares of common stock for resale from time to time. Other than with respect to the Placement Agent, which acted as our placement agent in the July 2025 Private Placement, a warrant inducement which occurred in July 2024 (the "July 2024 Warrant Inducement"), a warrant inducement which occurred in June 2024 (the "June 2024 Warrant Inducement"), our December 2023 private placement (the "December 2023 Private Placement") and our May 2023 Private Placement (the "May 2023 Private Placement"), each as more fully described in our Annual Report on Form 10-K for the fiscal year ended December 31, 2024 as filed with the SEC on March 24, 2025, except for the ownership of the warrants issued to the Placement Agent, and the shares of common stock issued and issuable pursuant to prior financings, the selling stockholders have not had any material relationship with us within the past three years.

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. The second column lists the number the shares of common stock beneficially owned by each selling stockholder, based on its ownership of the shares of common stock, including shares underlying the Warrants, as of July 7, 2025, assuming exercise of the Warrants held by the selling stockholders on that date, without regard to any limitations on conversions or exercises. The third column lists the maximum number of the shares of common stock being offered in this prospectus by the selling stockholders. The fourth and fifth columns list the amount of the shares of common stock owned after the offering, by number of the shares of common stock and percentage of outstanding the shares of common stock (assuming for the purpose of such percentage, 9,211,797 shares outstanding as of July 7, 2025) assuming in both cases the sale of all of the shares of common stock offered by the selling stockholders pursuant to this prospectus, and without regard to any limitations on conversions or exercises.

Under the terms of the Warrants issued in the July 2025 Private Placement, a selling stockholder may not exercise the warrants to the extent such exercise would cause such selling stockholder, together with its affiliates, to beneficially own a number of shares of common stock which would exceed 4.99% or 9.99%, as applicable, of our then outstanding shares of common stock following such exercise, excluding for purposes of such determination shares of common stock not yet issuable upon exercise of the warrants and the placement agent warrants which have not been exercised. The number of shares does not reflect this limitation. The selling stockholders may sell all, some or none of their shares of common stock or the Warrants in this offering. See "Plan of Distribution."

Maximum

Name of selling stockholder	Number of Shares of Common Stock Owned Prior to Offering	Number of Shares of Common Stock to be Sold Pursuant to this Prospectus	Shares Beneficially Owned After Offering	
			Number	Percentage
Anson Investments Master Fund LP <sup>(1)</sup>	1,626,020 <sup>(2)</sup>	1,626,020 (2)		*
Bristol Investment Fund, Ltd. <sup>(3)</sup>	1,626,020 <sup>(4)</sup>	1,626,020 (4)	-	*
Intracoastal Capital LLC <sup>(5)</sup>	3,252,036 <sup>(6)</sup>	3,252,036 (6)	-	*
Michael Vasinkevich <sup>(7)</sup>	262,196 <sup>(8)</sup>	72,988 <sup>(9)</sup>	189,208 (10)	*
Noam Rubinstein <sup>(7)</sup>	128,800 (11)	35,854 (12)	92,946 (13)	*
Craig Schwabe <sup>(7)</sup>	13,797 (14)	3,841 (15)	9,956 (16)	*
Charles Worthman <sup>(7)</sup>	4,089 (17)	1,138 (18)	2,951 (19)	*

- (2) Consists of (i) 406,505 shares of Common Stock (ii) 406,505 shares of Common Stock issuable upon the exercise of the Series A-3 Warrants and (iii) 813,010 shares of Common Stock issuable upon exercise of the Series A-4 Warrants.
- (3) The securities are directly held by Britsol Investment Fund, Ltd. ("Bristol"). Paul L. Kessler, as manager of the investment advisory firm to Bristol, may be deemed to have beneficial ownership of the securities reported herein that are held by Bristol. The address of Bristol is c/o Bristol Capital Advisors, LLC, 1090 Center Drive, Park City, UT 84098.
- (4) Consists of (i) 406,505 shares of Common Stock (ii) 406,505 shares of Common Stock issuable upon the exercise of the Series A-3 Warrants and (iii) 813,010 shares of Common Stock issuable upon exercise of the Series A-4 Warrants.
- (5) The securities are directly held by Intracoastal Capital LLC ("Intracoastal"). Mitchell P. Kopin ("Mr. Kopin") and Daniel B. Asher ("Mr. Asher"), each of whom are managers of Intracoastal, have shared voting control and investment discretion over the securities reported herein that are held by Intracoastal. As a result, each of Mr. Kopin and Mr. Asher may be deemed to have beneficial ownership of the securities reported herein that are held by Intracoastal. The address of Intracoastal is 245 Palm Trail, Delray Beach, FL 33483.
- (6) Consists of (i) 813,009 shares of Common Stock (ii) 813,009 shares of Common Stock issuable upon the exercise of the Series A-3 Warrants and (iii) 1,626,018 shares of Common Stock issuable upon exercise of the Series A-4 Warrants.
- (7) Each of the selling stockholders is affiliated with H.C. Wainwright & Co., LLC, a registered broker dealer with a registered address of H.C. Wainwright & Co., LLC, 430 Park Ave, 3rd Floor, New York, NY 10022, and has sole voting and dispositive power over the securities held. The number of shares beneficially owned prior to this offering consist of shares of common stock issuable upon exercise of placement agent warrants, which were received as compensation. The selling stockholder acquired the placement agent warrants in the ordinary course of business and, at the time the placement agent warrants were acquired, the selling stockholder had no agreement or understanding, directly or indirectly, with any person to distribute such securities.
- (8) Consists of (i) 72,988 Placement Agent Warrants issued in the July 2025 Private Placement, (ii) 42,404 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (iii) 57,060 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iv) 44,872 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (v) 44,872 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (9) Consists of 72,988 Placement Agent Warrants issued in the July 2025 Private Placement.
- (10) Consists of (i) 42,404 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (ii) 57,060 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iii) 44,872 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (iv) 44,872 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (11) Consists of (i) 35,854 Placement Agent Warrants issued in the July 2025 Private Placement, (ii) 20,830 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (iii) 28,030 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iv) 22,043 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (v) 22,043 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (12) Consists of 35,854 Placement Agent Warrants issued in the July 2025 Private Placement.
- (13) Consists of (i) 20,830 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (ii) 28,030 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iii) 22,043 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (iv) 22,043 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (14) Consists of (i) 3,841 Placement Agent Warrants issued in the July 2025 Private Placement, (ii) 2,232 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (iii) 3,003 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iv) 2,362 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (v) 2,362 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (15) Consists of 3,841 Placement Agent Warrants issued in the July 2025 Private Placement.
- (16) Consists of (i) 2,232 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (ii) 3,003 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iii) 2,362 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (iv) 2,362 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (17) Consists of (i) 1,138 Placement Agent Warrants issued in the July 2025 Private Placement, (ii) 661 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (iii) 890 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iv) 700 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (v) 700 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.
- (18) Consists of 1,138 Placement Agent Warrants issued in the July 2025 Private Placement.
- (19) Consists of (i) 661 shares of common stock issuable upon exercise of warrants issued in connection with the May 2023 Private Placement, (ii) 890 shares of common stock issuable upon exercise of warrants issued in connection with the December 2023 Private Placement, (iii) 700 shares of common stock issuable upon exercise of warrants issued in connection with the June 2024 Warrant Inducement, and (iv) 700 shares of common stock issuable upon exercise of warrants issued in connection with the July 2024 Warrant Inducement.

#### DESCRIPTION OF OFFERED SECURITIES

The following description is intended as a summary of our Charter and our Bylaws, each of which will become effective prior to the effectiveness of the registration statement of which this prospectus forms a part, and which will be filed as exhibits to the registration statement of which this prospectus forms a part, and to the applicable provisions of the DGCL. Because the following is only a summary, it does not contain all of the information that may be important to you. For a complete description, you should refer to our Charter and Bylaws.

The selling stockholders may, from time to time, sell, transfer, or otherwise dispose of any or all of their shares of common stock or interests in shares of common stock on any stock exchange, market, or trading facility on which the shares are traded or in private transactions at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices. This prospectus provides you with a general description of the common stock the selling stockholders may offer.

#### **Authorized Capital Stock**

Our Charter authorizes us to issue up to 42,803,774 shares consisting of 30,000,000 shares of common stock with a par value of \$0.0001 per share, 2,803,774 shares of non-voting common stock with a par value of \$0.0001 per share and 10,000,000 shares of preferred stock with a par value of \$0.0001 per share. As of July 7, 2025, there were 54 holders of record of our common stock.

#### Common Stock

The shares of our common stock have the following rights, preferences and privileges:

Voting Rights

Each holder of common stock is entitled to one vote for each share of common stock held on all matters submitted to a vote of stockholders. Any action at a meeting at which a quorum is present will be decided by a majority of the voting power present in person or represented by proxy, except in the case of any election of directors, which will be decided by a plurality of votes cast. There is no cumulative voting.

Dividend Rights

Holders of our common stock are entitled to receive dividends when, as and if declared by our board of directors out of funds legally available for payment, subject to the rights of holders, if any, of any class of stock having preference over the common stock. Any decision to pay dividends on our common stock will be at the discretion of our board of directors. Our board of directors may or may not determine to declare dividends in the future. See "Dividend Policy." The board's determination to issue dividends will depend upon our profitability and financial condition any contractual restrictions, restrictions imposed by applicable law and the SEC, and other factors that our board of directors deems relevant.

Liquidation Rights

In the event of a voluntary or involuntary liquidation, dissolution or winding up of the Company, the holders of our common stock will be entitled to share ratably on the basis of the number of shares held in any of the assets available for distribution after we have paid in full, or provided for payment of, all of our debts and after the holders of all outstanding series of any class of stock have preference over the common stock, if any, have received their liquidation preferences in full.

Other Rights and Preferences

Holders of our common stock have no pre-emptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of our preferred stock that we may designate in the future. Shares of our common stock are not convertible into shares of any other class of capital stock, nor are they subject to any redemption or sinking fund provisions.

Fully paid and nonassessable

All of our outstanding shares of common stock are, and the shares of common stock to be issued in this offering will be, fully paid and nonassessable.

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## Preferred stock

We are authorized to issue up to 10,000,000 shares of preferred stock. Our Charter authorizes the board to issue these shares in one or more series, to determine the designations and the powers, preferences and relative, participating, optional or other special rights and the qualifications, limitations and restrictions thereof, including the dividend rights, conversion or exchange rights, voting rights (including the number of votes per share), redemption rights and terms, liquidation preferences, sinking fund provisions and the number of shares constituting the series. Our board of directors could, 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 common stock and which could have the effect of making it more difficult for a third party to acquire, or of discouraging a third party from attempting to acquire, a majority of our outstanding voting stock. No shares of preferred stock are currently outstanding.

# **Charter and Bylaw Provisions**

Charter and Bylaw Provisions

Our Charter and our Bylaws include a number of provisions that could deter hostile takeovers or delay or prevent changes in control of our management team, including the following:

Board of Directors vacancies. Our Charter provides that vacancies on the board of directors may be filled only by the affirmative vote of a majority of the
directors then in office, irrespective of whether there is a quorum, or by a sole remaining director. Additionally, the number of directors to serve on our board of
directors is fixed solely and exclusively by resolution duly adopted by our board of directors. This would prevent a stockholder from increasing the size of our
board of directors and then gaining control of our board of directors by filling the resulting vacancies with its own nominees. This makes it more difficult to
change the composition of our board of directors but promotes continuity of management.

- Classified Board of Directors. In accordance with our Charter, as it will be in effect following the effectiveness of the registration statement of which this prospectus forms a part, our board of directors will be divided into three classes with staggered three-year terms. At each annual general meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following election. Our directors will be divided among the three classes. We expect that any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. The division of our board of directors into three classes with staggered three-year terms may delay or prevent a change of our management or a change in control.
- Special Meetings of Stockholders. Our Bylaws provide that special meetings of our stockholders may be called by the board of directors acting pursuant to a
  resolution approved by the affirmative vote of a majority of the directors then in office, and special meetings of stockholders may not be called by any other
  person or persons.
- No Cumulative Voting. The DGCL provides that stockholders are not entitled to the right to cumulate votes in the election of directors unless the corporation's certificate of incorporation provides otherwise. Our Charter does not provide for cumulative voting.

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- Amendment of Charter and Bylaw Provisions. Any amendment of our Charter requires the affirmative vote of the majority of the outstanding shares of capital stock entitled to vote on such amendment, and the affirmative vote of the majority of the outstanding shares of each class entitled to vote thereon as a class, except that the provision in the Charter regarding the staggered board may not be repealed or amended without the vote of the holders of not less than 80% of the Company's voting stock, voting as a single class. Amendments to our Bylaws may be executed pursuant to a resolution by the Board of Directors pursuant to an affirmative vote of a majority of the directors then in office, or by the affirmative vote of at least 75% of the outstanding shares of capital stock entitled to vote.
- Delaware Business Combination Statute. The Company is subject to the "business combination" provisions of Section 203 of the DGCL. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a business combination with an interested stockholder for a period of three years following the date such person becomes an interested stockholder, unless the business combination or the transaction in which such person becomes an interested stockholder is approved in a prescribed manner. Generally, a "business combination" includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. Generally, an "interested stockholder" is a person that, together with affiliates and associates, owns, or within three years prior to the determination of interested stockholder status did own, 15% or more of a corporation's voting stock. The existence of this provision may have an anti-takeover effect with respect to transactions not approved in advance by our Board of Directors, and the anti-takeover effect includes discouraging attempts that might result in a premium over the market price for the shares of our common stock.
- Exclusive Forum. Unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware is the sole and exclusive forum for (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, officers, stockholder or other employees to us or our stockholders, (iii) any action asserting a claim against the Corporation or any current or former director, officer, stockholder, employee or agent of the Corporation arising pursuant to any provision of the DGCL, our Charter or our Bylaws, (iv) any action to interpret, apply, enforce or determine the validity of the Company's Charter or Bylaws, (v) any action asserting a claim against us governed by the internal affairs doctrine or (vi) any action asserting an "internal corporate claim" as that term is defined in Section 115 of the General Corporation Law. The federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint, claim or proceeding asserting a cause of action arising under the Exchange Act or the Securities Act. Furthermore, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all suits brought to enforce any duty or liability created by the Securities Act or the rules and regulations thereunder. Stockholders cannot waive compliance with the federal securities laws and the rules and regulations thereunder. Any person or entity purchasing or otherwise acquiring or holding any interest in shares of our capital stock shall be deemed to have notice of and consented to the forum provision in our Charter. This choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees.

## **Anti-Takeover Provisions**

The provisions of the DGCL, our Charter and our Bylaws may have the effect of delaying, deferring or discouraging another person from acquiring control of our company. These provisions, which are summarized below, may have the effect of discouraging takeover bids. They are also designed, in part, to encourage persons seeking to acquire control of us to negotiate first with our board of directors. We believe that the benefits of increased protection of our potential ability to negotiate with an unfriendly or unsolicited acquirer outweigh the disadvantages of discouraging a proposal to acquire us because negotiation of these proposals could result in an improvement of their terms.

Our Charter established a classified board of directors, divided in three classes with staggered three-year terms. Under the classified board of directors structure, only one class of directors would be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder for their respective three-year terms. Under the classified board of directors structure: (i) directors in Class I, consisting of Gideon Marks, are to stand for election at the Annual Meeting to be held in 2026; (ii) directors in Class II, consisting of Joseph Moscovitz, are to stand for election at the annual meeting of stockholders to be held in 2024; and (iii) directors in Class III, consisting of Israel Niv and Tuvia Barley, are to stand for election at the annual meeting of stockholders to be held in 2025.

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# $Limitations\ on\ Liability, Indemnification\ of\ officers\ and\ directors\ and\ insurance$

Our Charter and Bylaws contain provisions that limit the liability of our directors for monetary damages to the fullest extent permitted by the DGCL. Consequently, our directors will not be 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.

#### Listing

#### Transfer Agent and Registrar

The transfer agent and registrar for our common stock will be VStock Transfer, LLC. The transfer agent and registrar's address is 18 Lafayette Place, Woodmere, NY 11598.

#### **Exclusive Forum**

Our Charter provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for any stockholder for (a) any derivative action or proceeding brought on our behalf, (b) any action asserting a claim of breach of a fiduciary duty owed by, or other wrongdoing by, any current or former director, officer, stockholder, employee or agent of the Company or the Company's stockholders, (c) any action asserting a claim against the Corporation or any current or former director, officer, stockholder, employee or agent of the Corporation arising pursuant to any provision of the DGCL or the Company's Certificate of Incorporation or Bylaws, (d) any action to interpret, apply, enforce or determine the validity of the Company's Certificate of Incorporation or Bylaws, or (e) any action asserting a claim governed by the internal affairs doctrine or (f) any action asserting an "internal corporate claim" as that term is defined in Section 115 of the General Corporation Law. The federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint, claim or proceeding asserting a cause of action arising under the Exchange Act or the Securities Act. Furthermore, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all suits brought to enforce any duty or liability created by the Securities Act or the rules and regulations thereunder.

Stockholders cannot waive compliance with the federal securities laws and the rules and regulations thereunder. Any person or entity purchasing or otherwise acquiring or holding any interest in shares of our capital stock shall be deemed to have notice of and consented to the forum provision in our Charter.

The choice-of-forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with the Company or its directors, officers or other employees, and may result in increased costs to a stockholder who has to bring a claim in a forum that is not convenient to the stockholder, which may discourage such lawsuits. Although under Section 115 of the DGCL, exclusive forum provisions may be included in a company's certificate of incorporation, the enforceability of similar forum provisions in other companies' certificates or incorporation or bylaws has been challenged in legal proceedings, and it is possible that a court could find these types of provisions to be inapplicable or unenforceable. If a court were to find the exclusive forum provision of our Charter inapplicable or unenforceable with respect to one or more of the specified types of actions or proceedings, we may incur additional costs associated with resolving such matters in other jurisdictions, which could materially and adversely affect our business, financial condition and results of operations and result in a diversion of the time and resources of our management and board of directors.

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#### **Anti-Takeover Provisions of the DGCL and Charter Provisions**

Certain provisions of the DGCL and certain provisions included in our Charter and Bylaws summarized below may be deemed to have an anti-takeover effect and may delay, deter, or prevent a tender offer or takeover attempt that a stockholder might consider to be in its best interests, including attempts that might result in a premium being paid over the market price for the shares held by stockholders.

## Removal of Directors

Our Bylaws provide that stockholders may only remove a director with or without cause by a vote of no less than a majority of the shares present in person or by proxy at the meeting and entitled to vote, voting together as a single class.

#### Amendments to Certificate of Incorporation

Certain sections of our Certificate of Incorporation require the affirmative vote of the holders of a majority of the voting power of the then outstanding shares of capital stock of the Company entitled to vote, voting together as a single class, except that the provision in the Charter regarding the staggered board may not be repealed or amended without the vote of the holders of not less than 80% of the Company's voting stock, voting as a single class.

#### Staggered Board

The board of directors is divided into three classes, with regular three-year staggered terms. This classification system increases the difficulty of replacing a majority of the directors and may tend to discourage a third-party from making a tender offer or otherwise attempting to gain control of the Company. In addition, under Delaware law, the Certificate and the By-Laws, the Company's directors may be removed from office by the stockholders only for cause and only in the manner provided for in the Certificate. These factors may maintain the incumbency of the board of directors.

#### Amendments to Bylaws

Our Charter limits the abilities of the directors and stockholders to amend our Bylaws in certain circumstances. In particular, the Bylaws may be amended only by the vote of a majority of all of the directors then in office, or by the affirmative vote of the stockholders holding at least 75% of the outstanding shares of capital stock entitled to vote in accordance with the provisions of the Charter, Bylaws, and the DGCL.

#### No Cumulative Voting

Our Charter does not provide for cumulative voting.

# Special Meetings of Stockholders

Our Bylaws provide that, except as otherwise required by law, special meetings of the stockholders may be called only by an officer at the request of a majority of our board of directors, by our Chief Executive Officer or President or by the holders of not less than 25% of the holders of stock entitled to vote at the meeting.

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#### PLAN OF DISTRIBUTION

The selling stockholders of the Shares and any of its pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their securities covered hereby on the Nasdaq Capital Market or any other stock exchange, market or trading facility on which the securities are traded or in private transactions. These sales may be at

fixed or negotiated prices. The selling stockholders may use any one or more of the following methods when selling securities:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the securities 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 exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales;
- in transactions through broker-dealers that agree with the selling stockholder to sell a specified number of such securities at a stipulated price per security;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

The selling stockholders may also sell securities under Rule 144 or any other exemption from registration under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the selling stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from each selling stockholder (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.

In connection with the sale of the securities 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 the securities in the course of hedging the positions they assume. The selling stockholders may also sell securities short and deliver these securities to close out their short positions, or loan or pledge the securities 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 create one or more derivative securities which require the delivery to such broker-dealer or other financial institution of securities offered by this prospectus, which securities such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The selling stockholders and any broker-dealers or agents that are involved in selling the securities may be deemed to be "underwriters" within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the securities purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. The selling stockholders have informed us that they do not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the securities.

The resale securities will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale securities 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.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of the resale securities may not simultaneously engage in market making activities with respect to the common stock for the applicable restricted period, as defined in Regulation M, prior to the commencement of the distribution. In addition, the selling stockholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of the common stock by the selling stockholder or any other person. We will make copies of this prospectus available to the selling stockholders and have informed them of the need to deliver a copy of this prospectus to each purchaser at or prior to the time of the sale (including by compliance with Rule 172 under the Securities Act).

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# LEGAL MATTERS

The validity of the shares of the common stock offered by this prospectus will be passed upon for us by Greenberg Traurig, LLP, New York, NY.

#### **EXPERTS**

The financial statements incorporated in this prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2024 have been so incorporated in reliance on the report (which contains an explanatory paragraph relating to the Company's ability to continue as a going concern as described in Note 1b to the financial statements) of Kesselman & Kesselman, Certified Public Accountants (Isr.), a member firm of PricewaterhouseCoopers International Limited, 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 a registration statement on Form S-1 with the SEC under the Securities Act with respect to the securities offered in this prospectus. This prospectus, which is filed as part of a registration statement, does not contain all of the information set forth in the registration statement, some portions of which have been omitted in accordance with the SEC's rules and regulations. Statements made in this prospectus as to the contents of any contract, agreement or other document referred to in this prospectus are not necessarily complete and are qualified in their entirety by reference to each such contract, agreement or other document that is filed as an exhibit to the registration statement.

You can read our SEC filings, including the registration statement, over the internet at the SEC's website. Upon completion of this offering, we will be subject to the information reporting requirements of the Exchange Act, and we will file reports, proxy statements and other information with the SEC. The SEC's website contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of that site is <a href="http://www.sec.gov">http://www.sec.gov</a>.

We also maintain a website at www.Actelis.com, at which you may access these materials free of charge as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC.

#### INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to "incorporate by reference" information into this prospectus. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information that we incorporate by reference is considered to be part of this prospectus. Because we are incorporating by reference our future filings with the SEC, this prospectus is continually updated and those future filings may modify or supersede some or all of the information included or incorporated in this prospectus. This means that you must look at all of the SEC filings that we incorporate by reference to determine if any of the statements in this prospectus or in any document previously incorporated by reference have been modified or superseded.

This prospectus incorporates by reference the documents listed below that have been previously filed with the SEC:

- our Annual Report on Form 10-K for the fiscal year ended December 31, 2024, filed with the SEC on March 24, 2025;
- our Quarterly Report on Form 10-Q for quarter ended March 31, 2025 filed with the SEC on May 13, 2025;
- our Current Reports on Form 8-K filed with the SEC on February 4, 2025 (as amended on February 13, 2025); February 13, 2025; March 4, 2025; March 28, 2025; April 1, 2025; May 13, 2025; May 21, 2025, June 16, 2025 and July 3, 2025;
- the description of our common stock, which is contained in the registration statement on Form 8-A filed with the SEC on May 4, 2022 (File No. 001-41375).

We also incorporate by reference all future documents (excluding information furnished pursuant to Items 2.02 and 7.01 of Form 8-K) we file with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act, subsequent to the date of this prospectus and prior to the termination of the offering.

You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. Any statement contained in a document incorporated by reference into this prospectus will be deemed to be modified or superseded for the purposes of this prospectus to the extent that a later statement contained in this prospectus or in any other document incorporated by reference into this prospectus modifies or supersedes the earlier statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus. You should not assume that the information in this prospectus is accurate as of any date other than the date of this prospectus or the date of the documents incorporated by reference in this prospectus.

The information about us contained in this prospectus should be read together with the information in the documents incorporated by reference. You may request a copy of any or all of these filings, at no cost, by writing or telephoning us at Yoav Efron, Chief Financial Officer and Deputy Chief Executive Officer, 4039 Clipper Court, Fremont, CA 94538 USA, telephone number +1-510-545-1045 or by emailing us at yoave@actelis.com.

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Actelis Networks, Inc.

PRELIMINARY PROSPECTUS

, 2025

## PART II

# INFORMATION NOT REQUIRED IN PROSPECTUS

### ITEM 13. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION

The following table sets forth the costs and expenses payable by the Company in connection with this offering. All expenses incurred with respect to the registration of the common stock will be borne by the Company. All amounts are estimates, except the SEC registration fee.

Distriction	
Printing expenses	\$ 2,000
Accounting fees and expenses	\$ 6,000
Legal fees and expenses	\$ 15,000
Total	\$ 23,588

#### ITEM 14. INDEMNIFICATION OF DIRECTORS AND OFFICERS

thereto, to eliminate or limit the personal liability of a director for monetary damages for breach of the director's fiduciary duty, except (i) for any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) pursuant to Section 174 of the Delaware Law (providing for liability of directors for unlawful payment of dividends or unlawful stock purchases or redemptions), or (iv) for any transaction from which the director derived an improper personal benefit. The Company's Sixth Amended and Restated Certificate of Incorporation, as amended ("Certificate of Incorporation"), contains such a provision.

In addition, Section 145 of the Delaware Law provides that a corporation may indemnify any persons, including officers and directors, who are, or are threatened to be made, party to any threatened, pending or completed legal action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation), by reason of the fact that such person is or was an officer, director, employee or agent of the corporation, or is or was serving at the request of such corporation as a director, officer, employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding, provided such officer, director, employee or agent acted in good faith and in a manner the person reasonably believed to be in or not opposed to the corporation's best interests and, with respect to criminal proceedings, had no reasonable cause to believe that the person's conduct was unlawful. A Delaware corporation may indemnify officers or directors in an action by or in the right of the corporation under the same conditions, except that no indemnification is permitted without judicial approval if the officer or director is adjudged to be liable to the corporation. Where an officer or director is successful on the merits or otherwise in the defense of any action referred to above, the corporation must indemnify him or her against expenses (including attorneys' fees) that he or she actually and reasonably incurred.

The Company's Certificate of Incorporation and Restated Bylaws provide for indemnification of directors and officers to the fullest extent permitted by the Delaware Law.

#### ITEM 15. RECENT SALES OF UNREGISTERED SECURITIES

The following information represents securities sold by the Company within the past three years which were not registered under the Securities Act.

On June 30, 2025, we entered into the Purchase Agreement with the Investors, pursuant to which we agreed to issue and sell to the Investors in a private placement (a) 1,626,019 shares of our Common Stock, (b) 1,626,019 Series A-3 Warrants, and (c) 3,252,038 Series A-4 Warrants, for a purchase price of \$0.615 per share and related Common Warrants, for a total aggregate gross proceeds of approximately \$1 million. The Offering closed on July 2, 2025. The Company also agreed to issue to the Placement Agent, 113,821 Placement Agent Warrants at an exercise price per share of \$0.7688.

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On June 30, 2024, we entered into an inducement letter with the holder of our certain warrants issued in June 2024 ("June 2024 Warrants"). Pursuant to the inducement letter, the holder agreed to exercise for cash 999,670 of its June 2024 Warrants to purchase an aggregate of 999,670 shares of our common stock at an exercise price of \$2.00 per share, in consideration of our agreement to issue the July 2024 warrants to purchase up to an aggregate of 1,999,340 shares of our common stock, at an exercise price of \$1.75 per share. We also agreed to issue to the Placement Agent 69,977 shares of common stock at an exercise price of \$2.50 per share and a term of five and one-half years. Our total aggregate gross proceeds were approximately \$2.25 million, and the transaction closed on July 2, 2024.

On June 5, 2024, we entered into an inducement letter with the holder of our warrants issued in May 2023 ("May 2023 Warrants"). Pursuant to the inducement letter, the holder agreed to exercise for cash its May 2023 Warrants to purchase an aggregate of 999,670 shares of our common stock at an exercise price of \$2.75 per share, in consideration of our agreement to issue the June 2024 Warrants to purchase up to an aggregate of 1,999,340 shares of our common stock, at an exercise price of \$2.00 per share. We also agreed to issue to the Placement Agent 69,977 shares of common stock at an exercise price per share of \$3.4375 and a term of five and one-half years. Our total aggregate gross proceeds were approximately \$3.0 million, and the transaction closed on June 6, 2024.

On December 17, 2023, we entered into a securities purchase agreement with an investor, pursuant to which we agreed to issue and sell to the investor in a private placement (i) 301,000 shares of our common stock, (ii) 970,187 pre-funded warrants to purchase up to 970,187 shares of our common stock and (iii) 1,271,187 shares of common stock issuable upon the exercise of common warrants, at a purchase price of \$1.18 per share of common stock and related common warrant, or \$1.1799 per pre-funded warrant and related common warrant, for a total aggregate gross proceeds of approximately \$1.5 million (the "December 2023 Private Placement"). The offering closed on December 20, 2023. The common warrants have an exercise price of \$1.18 per share, are exercisable immediately upon issuance and expire five and one-half years following the issuance. The pre-funded warrants were sold in lieu of shares of common stock, are exercisable immediately upon issuance, have an exercise price of \$0.0001 per share and expire when exercised in full. We also agreed to issue to the Placement Agent, 88,983 shares of common stock at an exercise price per share of \$1.475 and a term of five and one-half years.

On May 4, 2023, we entered into a securities purchase agreement with an investor, pursuant to which we agreed to issue and sell to the Investor in a private placement (i) 190,000 shares of our common stock, (ii) 754,670 pre-funded warrants to purchase up to 754,670 shares of our common stock and (iii) 944,670 shares of common stock issuable upon the exercise of common warrants, at a purchase price of \$3.705 per share of common stock and related common warrant, or \$3.7049 per pre-funded warrant and related common warrant, for a total aggregate gross proceeds of approximately \$3.5 million. The Offering closed on May 8, 2023. Following an amendment in September 2023, the common warrants now have an exercise price of \$2.75 per share, are exercisable immediately upon issuance and expire five and one-half years following the issuance. The pre-funded warrants were sold in lieu of shares of common stock, are exercisable immediately upon issuance, have an exercise price of \$0.0001 per share and expire when exercised in full. We also agreed to issue to the Placement Agent, 66,127 shares of common stock at an exercise price per share of \$4.6313 and a term of five and one-half years.

On November 8, 2023, we issued to the Placement Agent an additional 55,000 shares of common stock issuable upon the exercise of common warrants, at a purchase price of \$2.75 per share. As part of the December 2023 Private Placement, we agreed, subject to our shareholders approval, which has not yet been obtained, to amend the exercise price of the warrants to \$1.18 per share.

The securities above were offered and sold pursuant to an exemption from the registration requirements under Section 4(a)(2) of the Securities Act since, among other things, the transactions did not involve a public offering.

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## ITEM 16. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Exhibits.

Exhibit No. Description

3.2	Amended and Restated Bylaws of Actelis Networks, Inc. (as filed as Exhibit 3.4 to the Company's Form S-1/A, filed on May 10, 2022)
4.1	Description of Securities (filed as Exhibit 4.1 to the Company's Form 10-K for the fiscal year ended December 31, 2022, filed on March 29, 2023)
4.2	Form of Representative's Warrant (as filed as Exhibit 4.1 to the Company's Form S-1/A, filed on May 2, 2022)
4.3	Form of Common Warrant (as filed as Exhibit 4.1 to the Company's Current Report on Form 8-K, filed on May 8, 2023)
4.4	Form of Pre-Funded Warrant (as filed as Exhibit 4.2 to the Company's Current Report on Form 8-K, filed on May 8, 2023)
4.5	Form of Placement Agent Warrant (as filed as Exhibit 4.3 to the Company's Current Report on Form 8-K, filed on May 8, 2023)
4.6	Form of Common Warrant (as filed as Exhibit 4.1 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
4.7	Form of Pre-Funded Warrant (as filed as Exhibit 4.2 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
4.8	Form of Placement Agent Warrant (as filed as Exhibit 4.3 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
4.9	Form of Credit Agreement (as filed as Exhibit 4.1 to the Company's Current Report on Form 8-K, as filed on February 14, 2024).
4.10	Form of Series A-3 Warrant (as filed as Exhibit 4.1 to the Company's Current Report on Form 8-K filed on July 3, 2025)
4.11	Form of Series A-4 Warrant (as filed as Exhibit 4.2 to the Company's Current Report on Form 8-K filed on July 3, 2025)
4.12	Form of Placement Agent Warrant (as filed as Exhibit 4.3 to the Company's Current Report on Form 8-K filed on July 3, 2025)
5.1*	Opinion of Greenberg Traurig LLP
10.1	Lease by and between Actelis Networks Israel, Ltd. and Moshe Smucha, dated January 13, 2000 (as filed as Exhibit 10.2 to the Company's Form S-1/A, filed
	on May 2, 2022)
10.2	First Amendment to the Lease and Management Agreements from October 22, 2017, by and between Homerton Investments, Ltd. and Actelis Networks Israel
	Ltd., dated April 14, 2021 (as filed as Exhibit 10.3 to the Company's Form S-1/A, filed on May 2, 2022)
10.3	Employment Agreement between Actelis Networks, Inc. and Mr. Tuvia Barlev dated February 15, 2015 (as filed as Exhibit 10.9 to the Company's Form S-
	1/A, filed on May 2, 2022)
10.4	Offer letter between Actelis Networks, Inc. and Mr. Yoav Efron dated November 30, 2017 (as furnished as Exhibit 10.10 to the Company's Form S-1/A, filed
	on May 10, 2022)
10.5	Employment Agreement between Actelis Networks Israel, Ltd. And Mr. Yoav Efron dated November 30, 2017 (as furnished as Exhibit 10.11 to the
	Company's Form S-1/A, filed on May 10, 2022)
10.6	Consulting Agreement between Actelis Networks, Inc. and Barlev Enterprises dated February 20, 2015 (as furnished as Exhibit 10.12 to the Company's
	Form S-1/A, filed on May 10, 2022)
10.7	Actelis Networks, Inc. 2015 Equity Incentive Plan (as filed as Exhibit 10.13 to the Company's Form S-1, filed on April 15, 2022)
10.8	Amendment No. 1 to 2015 Equity Incentive Plan (as filed as Exhibit 10.14 to the Company's Form S-1, filed on April 15, 2022)
10.9	Senior Loan Agreement between Migdalor Business Investment Fund and Actelis Networks Israel, Ltd., dated December 2, 2020 (as filed as Exhibit 10.16 to
	the Company's Form S-1, filed on April 15, 2022)
10.10	Amendment Number 1 to Senior Loan Agreement between Migdalor Business Investment Fund and Actelis Networks Israel, Ltd., dated November 17, 2021
	(as filed as Exhibit 10.17 to the Company's Form S-1, filed on April 15, 2022)

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10.11	Securities Purchase and Loan Repayment Agreement between Actelis Networks, Inc. and Mr. Tuvia Barley dated April 15, 2022 (as filed as Exhibit 10.18 to
	the Company's Form S-1, filed on April 15, 2022)
10.12	Form of Securities Purchase Agreement (as filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed on May 8, 2023)
10.13	Form of Registration Rights Agreement (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed on May 8, 2023)
10.14	Form of Warrant Amendment (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
10.15	Form of Securities Purchase Agreement (as filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
10.16	Form of Warrant Amendment (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
10.17	Form of Registration Rights Agreement (as filed as Exhibit 10.3 to the Company's Current Report on Form 8-K, filed on December 20, 2023)
10.18	Form of Inducement Letter (as filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed on June 6, 2024)
10.19	Form of June 2024 Warrant (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K filed on June 6, 2024)
10.20	Form of June 2024 Placement Agent Warrant (as filed as Exhibit 10.3 to the Company's Current Report on Form 8-K filed on June 6, 2024).
10.21	Form of Inducement Letter (as filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed on July 2, 2024)
10.22	Form of July 2024 New Warrant (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K filed on July 2, 2024)
10.23	Form of July 2024 Placement Agent Warrant (as filed as Exhibit 10.3 to the Company's Current Report on Form 8-K filed on July 2, 2024).
10.24	At the Market Offering Agreement, dated September 25, 2024, between the Company and H.C. Wainwright & Co., LLC (as filed as Exhibit 10.1 to the
	Company's Current Report on Form 8-K filed on September 25, 2024)
10.25	Form of Securities Purchase Agreement (as filed as Exhibit 10.1 to the Company's Current Report on Form 8-K filed on July 3, 2025)
10.26	Form of Registration Rights Agreement (as filed as Exhibit 10.2 to the Company's Current Report on Form 8-K filed on July 3, 2025)
23.1*	Consent of Kesselman & Kesselman, Certified Public Accountants (Isr.) a member firm of PricewaterhouseCoopers International Limited, independent
	registered public accounting firm for the Company
24.1*	Power of Attorney
101.INS	Inline XBRL Instance Document.
101.SCH	Inline XBRL Taxonomy Extension Schema Document.
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).
107*	Filing Fee Table

# \* Filed herewith

# (b) Financial Statement Schedules

All financial statement schedules are omitted because the information required to be set forth therein is not applicable or is included in the consolidated financial statements or related notes incorporated herein by reference.

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# ITEM 17. UNDERTAKINGS

- (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;
  - (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 Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 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 paragraphs (a)(1)(i), (a)(1)(ii), and (a)(1)(iii) of this section 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 SEC by the registrant pursuant to section 13 or section 15(d) of the Exchange Act that are incorporated by reference in the registration statement.
- (2) That, for the purpose of determining any liability under the Securities Act, 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 to any purchaser, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. 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 first use, 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 date of first use.
- (5) That, for the purpose of determining liability of the registrant under the Securities Act 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 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;

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- (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) That, insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act 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 and will be governed by the final adjudication of such issue.
- (c) The undersigned registrant hereby undertakes:
  - (1) That, for the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus 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.
  - (2) That, for purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

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# SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Freemont, California on July 9, 2025.

Tuvia Barlev Chief Executive Officer and Secretary

# POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTED, that each director and officer of Actelis Networks, Inc. whose signature appears below hereby appoints Tuvia Barlev and Yoav Efron, and each of them severally, acting alone and without the other, his/her true and lawful attorney-in-fact with full power of substitution or re-substitution, for such person and in such person's name, place and stead, in any and all capacities, to sign on such person's behalf, individually and in each capacity stated below, any and all amendments, including post-effective -amendments to this Registration Statement, and to sign any and all additional registration statements relating to the same offering of securities of the Registration Statement that are filed pursuant to Rule 462(b) of the Securities Act of 1933, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as fully to all intents and purposes as such person might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact, or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Signature	Title	Date
/s/ Tuvia Barlev Tuvia Barlev	Chief Executive Officer and Chairman of the Board of Directors (Principal Executive Officer)	July 9, 2025
/s/ Yoav Efron Yoav Efron	Chief Financial Officer and Deputy Chief Executive Officer (Principal Financial Officer and Principal Accounting Officer)	July 9, 2025
/s/ Niel Ransom Niel Ransom	Director	July 9, 2025
/s/ Gideon Marks Gideon Marks	Director	July 9, 2025
/s/ Julie Kunstler Julie Kunstler	Director	July 9, 2025
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July 9, 2025

Actelis Networks, Inc. 4039 Clipper Court Fremont, CA 94538

Re: Actelis Networks, Inc. Registration Statement on Form S-1

Ladies and Gentlemen:

We have acted as counsel for Actelis Networks, Inc., a Delaware corporation (the "Company"), in connection with the preparation of a Registration Statement on Form S-1, including the prospectus constituting a part thereof (as may be amended, the "Registration Statement"), being filed by the Company with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), relating to the registration for resale under the Registration Statement of an aggregate of 6,617,897 shares (the "Registered Shares") of the Company's common stock, par value \$0.0001 per share ("Common Stock") which consists of the following: (i) 1,626,019 shares of Common Stock (the "Series A-3 Warrant Shares") issued in a private placement which closed on July 2, 2025 (the "Private Placement"), (ii) 1,626,019 shares of Common Stock issuable (the "Series A-3 Warrant Shares") upon the exercise of Series A-3 warrants issued in the Private Placement ("Series A-3 Warrants"), (iii) 3,252,038 shares of Common Stock Series A-4 Warrant Shares") issuable upon the exercise of Placement Agent Warrant Shares", and, with the Series A-3 Warrants Shares, the "Warrant Shares") issuable upon the exercise of placement agent warrants issued in the Private Placement ("Placement Agent Warrants").

In connection with our representation of the Company, and as a basis for the opinions hereinafter set forth, we have examined originals, or copies certified or otherwise identified to our satisfaction, of the following (collectively, the "<u>Documents</u>"):

- 1. the Registration Statement;
- 2. the Company's Amended and Restated Certificate of Incorporation;
- 3. the Company's Amended and Restated Bylaws;
- 4. the Warrants;
- 5. resolutions adopted by the Company's Board of Directors approving, among other things, the issuance of the Shares, the Warrants and the Warrant Shares; and
- 6. such other documents and records and other certificates and instruments and matters of law as we have deemed necessary or appropriate to express the opinion set forth below, subject to the assumptions, limitations and qualifications stated herein.

In rendering the opinions set forth below, we have assumed: (i) the genuineness of all signatures, the legal capacity of natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as duplicates or certified or conformed copies and the authenticity of the originals of such latter documents; (ii) each individual executing any of the Documents, whether on behalf of such individual or another person, is legally competent and authorized to do so; (iii) each of the parties (other than the Company) executing any of the Documents has duly and validly executed and delivered each of the Documents to which such party is a signatory; and (iv) the obligations of each party set forth therein are legal, valid and binding obligations of such party and are enforceable against such party in accordance with all stated terms.

Actelis Networks, Inc. July 9, 2025

As to matters of fact, we have relied upon the Documents and, solely to the extent we deemed reasonably appropriate, upon representations or certificates of officers or directors of the Company, without independently verifying the accuracy of such documents, records and instruments.

Based solely upon and subject to the foregoing, and subject to the assumptions, limitations and qualifications stated herein, we are of the opinion that the Shares are duly authorized, validly issued, fully paid and nonassessable. Further, we are of the opinion that the Warrant Shares have been duly authorized and, when issued by the Company upon exercise of the Warrants in accordance with the terms thereof, will be validly issued, fully paid and nonassessable.

This opinion letter is limited to the matters stated herein, and no opinions may be implied or inferred beyond the matters expressly stated herein. We assume no obligation to supplement this opinion if any applicable law changes after the date hereof or if we become aware of any fact that might change the opinion expressed herein after the date hereof.

We do not express any opinion herein concerning any law other than the laws of the State of Delaware and the federal laws of the United States.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the use of the name of our firm therein. In giving this consent, we do not admit that we are within the category of persons whose consent is required by Section 7 of the Securities Act or the rules and regulations of the Commission promulgated thereunder.

Very truly yours,

/s/ Greenberg Traurig, LLP

GREENBERG TRAURIG, LLP

# CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-1 of Actelis Networks, Inc. of our report dated March 24, 2025 relating to the financial statements, which appears in Actelis Networks, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2024. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ Kesselman & Kesselman

Kesselman & Kesselman Certified Public Accountants (Isr.) A member firm of PricewaterhouseCoopers International Limited

Tel-Aviv, Israel July 9, 2025

#### Calculation of Filing Fee Tables

Form S-1 (Form Type)

#### Actelis Networks, Inc.

(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities

	Security Type	Security Class Title	Fee Calculation Or Carry Forward Rule	Amount Registered <sup>(1)</sup>	Proposed Maximum Offering Price Per Share <sup>(2)</sup>	Maximum Aggregate Offering Price <sup>(2)</sup>	Fee Rate	Amount of Registration Fee
Fees to Be Paid	Equity	Common Stock, \$0.0001 par value per share	457 (c)	6,617,897	\$ 0.58	\$3,841,689.21	\$ 0.0001531	\$ 588.17
			Total Offe	ring Amounts		\$3,841,689.21		\$ 588.17
Total Fees Previously Paid								
			Tot	al Fee Offsets				
				Net Fees Due				\$ 588.17

- (1) Pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this registration statement shall also cover any additional shares of common stock, par value \$0.0001 per share ("Common Stock"), of Actelis Networks, Inc that may be issued in connection with a stock dividend, stock split, recapitalization or similar transactions.
- (2) Estimated solely for the purpose of computing the amount of the registration fee pursuant to Rule 457 under the Securities Act, based on the average of the high and low prices of the Common Stock on the Nasdaq Capital market on July 7, 2025.
- (3) Consists of (i) 1,626,019 shares of Common Stock issued in a private placement that closed on July 2, 2025 (the "Private Placement") (ii) 1,626,019 shares of Common Stock issuable upon the exercise of Series A-3 warrants issued in the Private Placement (iii) 3,252,038 shares of Common Stock issuable upon the exercise of Series A-4 warrants issued in the Private Placement and (iv) 113,821 shares of Common Stock issuable upon the exercise of placement agent warrants issued in the Private Placement.