

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

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

ALZAMEND NEURO, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

2834
(Primary Standard Industrial
Classification Code Number)

81-1822909
(I.R.S. Employer
Identification No.)

**3480 Peachtree Road NE, Second Floor, Suite 103
Atlanta, GA 30326
(844) 722-6333**
(Address, including zip code, and telephone number,
including area code, of registrant's principal executive offices)

**Stephan Jackman
Chief Executive Officer
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(Name, address, including zip code, and telephone number,
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Approximate date of commencement of proposed sale to the public: From time to time after this Registration Statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

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

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

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

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

Large accelerated filer Accelerated filer
Non-accelerated filer Smaller reporting company
Emerging growth company

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

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

may determine.

The information contained in this preliminary prospectus is not complete and may be changed. These securities may not be sold 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 does not solicit an offer to buy these securities in any state where the offer or sale is not permitted.

PRELIMINARY PROSPECTUS

SUBJECT TO COMPLETION, DATED JUNE 3, 2024



ALZAMEND NEURO, INC.
125,000,000 Shares of Common Stock

This prospectus relates to the resale of up to 125,000,000 shares of common stock, par value \$0.0001 per share (the “Common Stock”), of Alzamend Neuro, Inc. (“we,” “us,” “our” or the “Company”), by Orchid Finance LLC (the “Selling Stockholder”), including (i) 105,000,000 shares of Common Stock (the “Conversion Shares”) to be issued upon the conversion of shares of Series A Convertible Preferred Stock (the “Preferred Shares”), including PIK Shares (as hereinafter defined) and (ii) 20,000,000 shares of Common Stock (the “Warrant Shares”) to be issued upon the exercise of warrants (the “Warrants”) that may be issued pursuant to the Securities Purchase Agreement we entered into with the Selling Stockholder (the “Purchase Agreement”) on May 8, 2024 (the “Execution Date”). We are registering the shares for resale pursuant to such stockholders’ registration rights under a securities purchase agreement and a registration rights agreement between us and such stockholders.

Pursuant to the Purchase Agreement, the Selling Stockholder has committed to purchase from us, subject to stockholder approval, (i) up to 2,500 Preferred Shares, excluding any such Preferred Shares that may be issuable, at the Selling Stockholder’s discretion, as dividends (the “PIK Shares”), and (ii) Warrants to purchase an aggregate of up to 20,000,000 Warrant Shares. For additional information, see “Private Placement” beginning on page 8 of this prospectus.

Subject to any applicable contractual restrictions, the Selling Stockholder may sell or otherwise dispose of the shares of our Common Stock included in this prospectus in a number of different ways and at varying prices. See the section titled “Plan of Distribution” for more information about how the Selling Stockholder may sell or otherwise dispose of the Common Stock being offered in this prospectus. The Selling Stockholder may sell some, all or none of the shares being offered for resale in this offering.

We are not selling any shares of our Common Stock under this prospectus and will not receive any of the proceeds from the sale of the shares of our Common Stock owned by the Selling Stockholder, provided, that we would receive certain proceeds in the event that the Selling Stockholder elects to exercise its Warrants. For additional information, see “Use of Proceeds” beginning on page 11 of this prospectus and “Selling Stockholder” beginning on page 13 of this prospectus.

Our Common Stock trades on The Nasdaq Capital Market under the symbol “ALZN.” On May 31, 2024, the last reported sales price of the Common Stock, as reported by The Nasdaq Capital Market, was \$0.59 per share.

We are a “smaller reporting company” as defined under the federal securities laws and, as such, have elected to comply with certain reduced public company reporting requirements for this prospectus and may elect to do so in future filings.

Investing in the Common Stock is highly speculative and involves a high degree of risk. You should review carefully the risks and uncertainties described in the section titled “Risk Factors” beginning on page 5 of this prospectus, and under similar headings in any amendments or supplements to this prospectus.

Neither the SEC nor any state securities commission has approved or disapproved of the Common Stock or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2024

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-1 that we filed with the SEC. The Selling Stockholder may, from time to time, sell up to 125,000,000 shares of our Common Stock, as described in this prospectus. We will not receive any proceeds from the sale by the Selling Stockholder of the securities described in this prospectus, provided, that we would receive certain proceeds in the event that the Selling Stockholder elects to exercise its Warrants.

You should rely only on the information contained in this prospectus, any supplement to this prospectus or in any free writing prospectus, filed with the SEC. Neither we nor the Selling Stockholder have authorized anyone to provide you with additional information or information different from that contained in this prospectus, or any applicable prospectus supplement or any free writing prospectuses prepared by us or on our behalf and filed with the SEC. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. The Selling Stockholder is offering to sell our securities only in jurisdictions where offers and sales are permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or any sale of our securities. Our business, financial condition, results of operations and prospects may have changed since that date.

We may also file a prospectus supplement or post-effective amendment to the registration statement of which this prospectus forms a part that may contain material information relating to the offering. The prospectus supplement or post-effective amendment, as the case may be, may add, update or change information contained in this prospectus with respect to the offering. If there is any inconsistency between the information in this prospectus and the applicable prospectus supplement or post-effective amendment, you should rely on the prospectus supplement or post-effective amendment, as applicable. Before purchasing any shares of our Common Stock, you should carefully read this prospectus and any prospectus supplement and/or post-effective amendment, as applicable, together with the additional information described under “*Where You Can Find More Information.*”

For investors outside of the United States: Neither we nor the Selling Stockholder have done anything that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of our securities and the distribution of this prospectus outside the United States.

This document includes trademarks, tradenames and service marks, certain of which belong to the Company and others that are the property of other organizations. Solely for convenience, trademarks, tradenames and service marks referred to in this document appear without the ®, TM and SM symbols, but the absence of those symbols is not intended to indicate, in any way, that the Company will not assert its rights or that the applicable owner will not assert its rights to these trademarks, tradenames and service marks to the fullest extent under applicable law. The Company does not intend its use or display of other parties’ trademarks, trade names or service marks to imply, and such use or display should not be construed to imply, a relationship with, or endorsement or sponsorship of the Company by, these other parties.

Unless the context indicates otherwise, references in this prospectus to the “Company,” “we,” “us,” “our” and similar terms refer to Alzamend Neuro, Inc. and its consolidated subsidiary.

MARKET AND INDUSTRY DATA

This prospectus contains estimates, projections, and other information concerning our industry and business, as well as data regarding market research, estimates, and forecasts prepared by our management. Information that is based on estimates, forecasts, projections, market research, or similar methodologies is inherently subject to uncertainties, and actual events or circumstances may differ materially from events and circumstances that are assumed in this information. The industry in which we operate is subject to a high degree of uncertainty and risk due to a variety of factors, including those described in the section titled “*Risk Factors.*” Unless otherwise expressly stated, we obtained this industry, business, market, and other data from reports, research surveys, studies, and similar data prepared by market research firms and other third parties, industry and general publications, government data, and similar sources. In some cases, we do not expressly refer to the sources from which this data is derived. In that regard, when we refer to one or more sources of this type of data in any paragraph, you should assume that other data of this type appearing in the same paragraph is derived from sources which we paid for, sponsored, or conducted, unless otherwise expressly stated or the context otherwise requires. While we have compiled, extracted, and reproduced industry data from these sources, we have not independently verified the data. Forecasts and other forward-looking information with respect to industry, business, market, and other data are subject to the same qualifications and additional uncertainties regarding the other forward-looking statements in this document. See “*Cautionary Note Regarding Forward-Looking Statements.*”

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This registration statement and the documents incorporated by reference in, of which this prospectus forms a part, contains forward-looking statements. All statements other than statements of historical fact contained herein, including statements regarding our business plans or strategies, projected or anticipated benefits or other consequences of our plans or strategies are forward-looking statements. Words such as “anticipates,” “assumes,” “believes,” “can,” “could,” “estimates,” “expects,” “forecasts,” “guides,” “intends,” “is confident that,” “may,” “plans,” “seeks,” “projects,” “targets,” and “would,” and their opposites and similar expressions, as well as statements in future tense, are intended to identify forward-looking statements. Forward-looking statements should not be read as a guarantee of future performance or results and may not be accurate indications of when such performance or results will actually be achieved. Forward-looking statements are based on information we have when those statements are made or our management’s good faith belief as of that time with respect to future events and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- our need for substantial additional funding to finance our operations and complete development to seek FDA approval for AL001 and ALZN002 before commercialization;
- our ability to effectively execute our business strategy;
- our ability to manage our expansion, growth and operating expenses;
- our ability to evaluate and measure our business, prospects and performance metrics;
- our ability to compete and succeed in a highly competitive and evolving industry;
- our ability to respond and adapt to changes in technology and customer behavior;
- our ability to protect our intellectual property and to develop, maintain and enhance a strong brand;
- our significant losses since inception and anticipation that we will continue to incur significant losses for the foreseeable future;
- our reliance on licenses from a third party regarding our rights and development of AL001 and ALZN002;

- our development of AL001 and ALZN002 never leading to a marketable product;
- our product candidates not qualifying for expedited development, or if they do, not actually leading to a faster development or regulatory review or approval process;
- our approach to targeting beta-amyloid plaque via ALZN002 being based on a novel therapeutic approach; and
- the risk factors included in our most recent filings with the SEC, including, but not limited to, our Forms 10-K and 10-Q, which are incorporated by reference herein.

Should one or more of these risks or uncertainties materialize or should any of the assumptions made by the management of the Company prove incorrect, actual results may vary in material respects from those projected in these forward-looking statements.

Except to the extent required by applicable law or regulation, the Company undertakes no obligation to update these forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

PROSPECTUS SUMMARY

This summary highlights certain information appearing elsewhere in this prospectus. Because it is only a summary, it does not contain all of the information that you should consider before investing in our securities and it is qualified in its entirety by, and should be read in conjunction with, the more detailed information appearing elsewhere in this prospectus. Before you decide to invest in our Common Stock, you should read the entire prospectus carefully, including the section titled “Risk Factors” and our financial statements and related notes thereto included elsewhere in this prospectus.

Overview

We were incorporated on February 26, 2016, as Alzamend Neuro, Inc. under the laws of the State of Delaware. We were formed to acquire and commercialize patented intellectual property and know-how to prevent, treat and potentially cure the crippling and deadly Alzheimer’s. With our two product candidates, we aim to bring treatment or cures not only for Alzheimer’s, but also bipolar disorder (“BD”), major depressive disorder (“MDD”) and post-traumatic stress disorder (“PTSD”). Existing Alzheimer’s treatments only temporarily relieve symptoms but do not, to our knowledge, slow or halt the underlying worsening of the disease. We have developed a novel approach to combat Alzheimer’s through immunotherapy.

Plan of Operations

We intend to develop and commercialize therapeutics that are better than existing treatments and have the potential to significantly improve the lives of individuals afflicted by Alzheimer’s, BD, MDD and PTSD. To achieve these goals, we are pursuing the following key business strategies:

- Advance clinical development of AL001 for Alzheimer’s, BD, MDD and PTSD treatment;
- Advance clinical development of ALZN002 for Alzheimer’s treatment;
- Expand our pipeline of pharmaceuticals to include additional indications for AL001 and delivery methods;
- Focus on translational and functional endpoints to efficiently develop product candidates; and
- Optimize the value of AL001 and ALZN002 in major markets.

Our pipeline consists of two novel therapeutic drug candidates:

- AL001 - A patented ionic cocrystal technology delivering a therapeutic combination of lithium, salicylate and proline through three royalty-bearing exclusive worldwide licenses from the University of South Florida Research Foundation, Inc., as licensor (the “Licensor”); and
- ALZN002 - A patented method using a mutant peptide sensitized cell as a cell-based therapeutic vaccine that seeks to restore the ability of a patient’s immunological system to combat Alzheimer’s through a royalty-bearing exclusive worldwide license from the Licensor.

Our most advanced product candidate (lead product) licensed and in clinical development in humans is AL001, an ionic cocrystal of lithium for the treatment of Alzheimer’s, BD, MDD and PTSD. Based on our preclinical data involving mice models, AL001 treatment prevented cognitive deficits, depression and irritability and is superior in improving associative learning and memory and irritability compared with lithium carbonate treatments, supporting the potential of this lithium formulation for the treatment of Alzheimer’s, BD, MDD and PTSD in humans. Lithium has been marketed for more than 35 years and human toxicology regarding lithium use has been well characterized, potentially mitigating the regulatory burden for safety data.

On May 5, 2022, we initiated a multiple-dose, steady-state, double-blind, ascending dose safety, tolerability, pharmacokinetic clinical trial of AL001 in patients with mild to moderate Alzheimer’s and healthy subjects. We completed the Phase IIA clinical trial patient dosing in March 2023 and announced positive topline data in June 2023.

We announced that we successfully identified a maximum tolerated dose (“MTD”) for development of AL001 from a multiple-ascending dose study as assessed by an independent safety review committee. This dose, providing lithium at a lithium carbonate equivalent dose of 240 mg 3-times daily (“TID”), is designed to be unlikely to require lithium therapeutic drug monitoring (“TDM”). Also, this MTD is risk mitigated for the purpose of treating fragile populations, such as Alzheimer’s patients.

Lithium is also prescribed off-label for MDD, BD and treatment of PTSD, among other disorders. Lithium was the first mood stabilizer approved by the U.S. Food and Drug Administration (“FDA”) and is still a first-line treatment option (considered the “gold standard”) but is underutilized perhaps because of the need for TDM. Lithium was the first drug that required TDM by regulatory authorities in product labelling because the effective and safe range of therapeutic drug blood concentrations is narrow and well defined for treatment of BD when using lithium salts. Excursions above this range can be toxic, and below can impair effectiveness.

Based on the results from our Phase IIA MAD study, we plan to initiate two safety and efficacy clinical trials in subjects with mild to moderate dementia of the Alzheimer’s type. Additionally, we are investigating the potential of AL001 for patients suffering from BD, MDD and PTSD, and submitted Investigational New Drug (“IND”) applications to the FDA for these indications. The IND for BD was filed in August 2023 and we received a “study may proceed” letter from the FDA in September 2023. The IND for MDD was filed in October 2023 and we received a “study may proceed” letter from the FDA in November 2023. The IND for PTSD was filed in November 2023 and we received a “study may proceed” letter from the FDA in December 2023. We intend to initiate clinical trials at the MTD to determine relative increased lithium levels in the brain compared to a marketed lithium salt for BD, MDD and PTSD, based on published mouse studies that predict that lithium can be given at lower doses for equivalent therapeutic benefit when treating with AL001. For example, the goal is to replace a 300 mg TID lithium carbonate dose for treatment of BD with a 240 mg TID AL001 lithium equivalent, which represents a daily decrease of 20% of lithium given to a patient. We anticipate beginning Phase II studies for the additional indications after we have obtained the necessary financing for the trials and payment to Phase IIA MAD study vendor for the final reports of that study.

We submitted a pre-IND meeting request for ALZN002 and supporting briefing documents to the Center for Biological Evaluation and Research of the FDA on July 30, 2021. We received a written response relating to the pre-IND from the FDA providing a path for Alzamend’s planned clinical development of ALZN002 on September 30, 2021. The FDA agreed to allow Alzamend to submit an IND to conduct a combined Phase I/II study.

On September 28, 2022, we submitted an IND application to the FDA for ALZN002 and received a “study may proceed” letter on October 31, 2022. The product candidate is an immunotherapy vaccine designed to treat mild to moderate dementia of the Alzheimer’s type. ALZN002 is a proprietary “active” immunotherapy product, which means it is produced by each patient’s immune system. It consists of autologous DCs that are activated white blood cells taken from each individual patient so that they can be engineered outside of the body to attack Alzheimer’s-related amyloid-beta proteins. These DCs are pulsed with a novel amyloid-beta peptide (E22W) designed to bolster the ability of the patient’s immune system to combat Alzheimer’s; the goal being to foster tolerance to treatment for safety purposes while stimulating the immune system to reduce the brain’s beta-amyloid protein burden, resulting in reduced Alzheimer’s signs and symptoms. Compared to passive immunization treatment approaches that use foreign blood products (such as monoclonal antibodies), active immunization with ALZN002 is anticipated to offer a more robust and long-lasting effect on the clearance of amyloid. This could provide a safer approach due to its reliance on autologous immune components, using each individual patient’s own white blood cells rather than foreign cells and/or blood products.

On April 3, 2023, we announced the initiation of a Phase I/IIA clinical trial for ALZN002 to treat mild to moderate dementia of the Alzheimer’s type. The purpose of this trial is to assess the safety, tolerability, and efficacy of multiple ascending doses of ALZN002 compared with that of placebo in 20-30 subjects with mild to moderate morbidity. We expect this trial to last for up to five years. The primary goal of this clinical trial is to determine an appropriate dose of ALZN002 for treatment of patients with Alzheimer’s in a larger Phase IIB efficacy and safety clinical trial, which Alzamend expects to initiate within three months of receiving data from the initial trial. On February 13, 2024, we received notice from the company we engaged as our contract research organization (“CRO”), Biorasi, LLC (“Biorasi”) that Biorasi was terminating our contract with them. We are currently pursuing the engagement of a replacement CRO.

The continuation of our current plan of operations with respect to initiating and conducting the series of human clinical trials for each of our therapeutics requires us to raise additional capital to fund our operations.

Because our working capital requirements depend upon numerous factors, including the progress of our preclinical and clinical testing, timing and cost of obtaining regulatory approvals, changes in levels of resources that we devote to the development of manufacturing and marketing capabilities, competitive and technological advances, status of competitors, and our ability to establish collaborative arrangements with other organizations, we will require additional financing to fund future operations.

Recent Developments

Nasdaq Listing

Deficiency Letter from Nasdaq – Market Value

On September 26, 2023, we received a notice from the staff of The Nasdaq Stock Market LLC (“Nasdaq”) indicating that, for the previous 30 consecutive business days, the minimum Market Value of Listed Securities (“MVLS”) for our Common Stock was below the \$35 million minimum MVLS requirement for continued listing on The Nasdaq Capital Market under Nasdaq Listing Rule 5550(b)(2) (the “MVLS Rule”). In accordance with Nasdaq Listing Rule 5810(c)(3)(C), we had 180 calendar days, or until March 25, 2024, to regain compliance with the MVLS Rule. To regain compliance with the MVLS Rule, the MVLS for our Common Stock must close at \$35 million or more for a minimum of 10 consecutive business days at any time during this 180-day period.

On March 26, 2024, we were notified by Nasdaq that we had not regained compliance with the MVLS Rule. Accordingly, unless the Company requested an appeal of this determination, the Nasdaq staff had determined that our Common Stock would be delisted from Nasdaq. We appealed the staff’s determination to delist our Common Stock to a Hearings Panel (the “Panel”). The Panel heard our appeal on May 9, 2024. On May 21, 2024, we received notice from the Panel that it granted our request to continue our listing on Nasdaq, subject to us demonstrating compliance, on or before September 23, 2024, with Listing Rule 5550(b)(1), which requires stockholder equity of at least \$2.5 million (or an alternative listing standard), and satisfying all applicable requirements for continued listing on Nasdaq.

Deficiency Letter from Nasdaq – Bid Price

On February 1, 2024, we received a notice in the form of a letter (“Deficiency Letter”) from the Listing Qualifications Staff of the Nasdaq stating that we were not in compliance with Nasdaq Listing Rule 5550(a)(2) because the bid price for the Common Stock had closed below \$1.00 per share for the previous 30 consecutive business days. In accordance with Nasdaq listing rule 5810(c)(3)(A), we have 180 calendar days, or until July 30, 2024, to regain compliance. The Deficiency Letter states that to regain compliance, the bid price for the Common Stock must close at \$1.00 per share or more (the “Minimum Bid Price”) for a minimum of 10 consecutive business days during the compliance period ending July 30, 2024. In the event that we do not regain compliance within this 180-day period, we may be eligible to seek an additional compliance period of 180 calendar days if we meet the continued listing requirement for market value of publicly held shares and all other initial listing standards for the Nasdaq Capital Market, with the exception of the Minimum Bid Price, and provides written notice to Nasdaq of its intent to cure the deficiency during this second compliance period, by effecting a reverse stock split, if necessary. However, if it appears to the Nasdaq Staff that we will not be able to cure the deficiency, or if we are otherwise not eligible, Nasdaq will provide notice to us that our Common Stock will be subject to delisting. At that time, we may appeal any such delisting determination to a Nasdaq hearings panel.

Corporate Information

THE OFFERING

<i>Issuer:</i>	Alzamed Neuro, Inc.
<i>Securities offered by the Selling Stockholder:</i>	125,000,000 shares of Common Stock consisting of (i) 105,000,000 shares of Common Stock to be issued upon the conversion of the Preferred Shares, including PIK Shares and (ii) 20,000,000 shares of Common Stock to be issued upon the exercise of Warrants.
<i>Shares of Common Stock Outstanding Prior to this Offering:</i>	7,376,011 shares of Common Stock.
<i>Shares of Common Stock to be Outstanding After this Offering⁽¹⁾</i>	132,376,011 shares of Common Stock.
<i>Use of Proceeds:</i>	We will not receive any proceeds from the sale of shares of common stock by the Selling Stockholder, provided, that we would receive certain proceeds in the event that the Selling Stockholder elects to exercise its Warrants. We will bear all of the expenses of this offering, and such expenses will be paid out of our general funds. See "Use of Proceeds."
<i>Risk Factors:</i>	Investing in the Common Stock involves a high degree of risk and uncertainty. You should read the "Risk Factors" section of this registration statement, including the prospectus, along with the information included under the same heading the documents incorporated by reference into this registration statement, including the prospectus, for a discussion of factors to consider before deciding to invest in the securities.
<i>Plan of Distribution:</i>	The Selling Stockholder may sell all or a portion of the shares of Common Stock beneficially owned by it and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. Registration of the Common Stock covered by this prospectus does not mean, however, that such shares necessarily will be offered or sold. See "Plan of Distribution."
<i>Nasdaq Capital Market Common Stock Symbol:</i>	ALZN

(1) The number of shares of Common Stock that will be outstanding after this offering is based on 7,376,011 shares of Common Stock outstanding as of May 31, 2024 and presumes that all of the shares registered for resale will be sold, but excludes:

- 2,404,506 shares of Common Stock issuable upon exercise of outstanding warrants;
- 2,100,000 shares of Common Stock issuable upon conversion of outstanding Series B convertible preferred stock;
- 980,000 shares of Common Stock issuable upon exercise of outstanding stock options;
- 2,500 shares of Common Stock issuable upon vesting outstanding restricted stock units; and
- 620,000 shares of Common Stock reserved for future issuance under our stock incentive plans.

RISK FACTORS

Investing in our securities involves a high degree of risk. You should carefully consider the following risk factors, as well as those set forth in our most recent Annual Report on Form 10-K filed with the SEC and subsequent Quarterly Reports on Form 10-Q, which are incorporated by reference into this prospectus, as well as the other information set forth in this prospectus and the documents incorporated by reference herein, before deciding whether to invest in our securities. Additional risks and uncertainties that we are unaware of may become important factors that affect us. If any of these risks materializes, our business, financial condition or operating results may suffer, the trading price of our common stock could decline, and you may lose all or part of your investment.

Risks Related to the Offering

It is not possible to predict the actual number of Preferred Shares we will sell under the Purchase Agreement to the Selling Stockholder, or the actual gross proceeds resulting from those sales, since we must meet the Milestones in order for the Selling Stockholder to be required to purchase additional Preferred Shares. Consequently, we may not have access to the full amount available under the Purchase Agreement with the Selling Stockholder within the foreseeable future, if at all.

On the Execution Date, we entered into the Purchase Agreement with the Selling Stockholder, pursuant to which the Selling Stockholder has committed to purchase up to the \$25 million of our Preferred Shares, subject to our achievement of certain Milestones (See the section entitled "*Private Placement – The Milestones*" for further information about the Milestones). The Preferred Shares that will be issued under the Purchase Agreement will, subject to our achievement of the Milestones, be sold by us to the Selling Stockholder from time to time beginning on the date of the second tranche closing (a "Tranche Closing") and continuing with sales of the third, fourth and fifth Tranche Closings as provided for in the Purchase Agreement.

Because it is currently impossible to predict whether we will meet any of the Milestones, there can be no assurance that we will meet any of them. If we fail to meet any or each of the four remaining Milestones, we will raise either no more funds from the Selling Stockholder beyond the \$1 million we received at the initial Tranche Closing, which we received on May 10, 2024, or only a portion of the contemplated aggregate of \$25 million. Consequently, we may not have access to the full amount available under the Purchase Agreement with the Selling Stockholder within the foreseeable future, if at all.

Our inability to access a portion or the full amount available under the Purchase Agreement, in the absence of any other financing sources, could have a material adverse effect on our business, in which case you would likely lose the entirety of your investment in our company.

The Preferred Shares are convertible into our Common Stock at a discount to the market price, which would increase the number of shares eligible for future resale in the public market and result in dilution to our stockholders.

Each Preferred Share is convertible into such number of shares of our Common Stock equal to the stated value of the Preferred Shares, which is \$10,000 per share (the “Stated Value”) divided by the greater of (i) \$0.25 per share and (ii) the lesser of (A) \$1.50 and (B) 80% of the lowest closing price of our Common Stock during the three trading days immediately prior to the date of conversion into shares of Common Stock (the “Conversion Price”). Based upon a closing price of \$0.5777 for our Common Stock during the three trading days prior to the filing of this prospectus on June 3, 2024, the 2,450 Preferred Shares would be convertible, at the Conversion Price of \$0.46216 into approximately 53,011,944 Conversion Shares. However, because we cannot issue more than 19.99% of the shares of Common Stock issued and outstanding on the Execution Date, or 1,375,310 such shares, the Preferred Shares would be unable to be converted into more than 1,375,310 shares of our Common Stock, unless and until we obtain stockholder approval. The shares of our Common Stock issued upon conversion of the Preferred Shares will result in dilution to the then existing holders of our Common Stock and increase the number of shares eligible for resale in the public market. Sales of substantial numbers of such shares in the public market could adversely affect the market price of our Common Stock.

The certificate of designations of rights and preferences of the Preferred Shares (the “Series A COD”) contains anti-dilution provisions that may result in the reduction of the Conversion Price in the future. This feature may result in an increased number of shares of Common Stock being issued upon conversion of the Preferred Shares. Sales of these shares will dilute the interests of other security holders and may depress the price of our Common Stock and make it difficult for us to raise additional capital.

The Series A COD contains anti-dilution provisions, which provisions require the lowering of the applicable Conversion Price, as then in effect, to the purchase price of equity or equity-linked securities issued in subsequent offerings. If in the future, while any of the Preferred Shares are outstanding, we issue securities at an effective purchase price less than the applicable Conversion Price of the Preferred Shares as then in effect, we will be required, subject to certain limitations and adjustments as provided in the Series A COD, to further reduce the Conversion Price, subject to \$0.25 (the “Floor Price”), which would result in a greater number of shares of Common Stock being issuable upon conversion of the Preferred Shares, which in turn will have a greater dilutive effect on our stockholders.

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The Series A COD of the Preferred Shares provides for the payment of dividends in cash or in additional Preferred Shares, at the Selling Stockholder’s option, which could require us to issue additional shares of Common Stock upon conversion of Preferred Shares issued as dividends.

Each Preferred Share is entitled to receive cumulative dividends at the rate per share of 15% per annum of the Stated Value. The dividends are payable, at the Selling Stockholder’s discretion, in cash, out of any funds legally available for such purpose, or to be paid-in-kind in the form of additional Preferred Shares (the “PIK Shares”). In the event that the Selling Stockholder elects to receive PIK Shares, that would increase the number of Preferred Shares we would be required to pay as a dividend in the future and increase the number of shares of Conversion Shares issuable upon conversion of the Preferred Shares. We will not be permitted to pay the dividend in cash unless we are legally permitted to do so under Delaware law. As such, if we are unable to pay cash, it is likely that the Selling Stockholder would elect to receive PIK Shares rather than accrue the receipt of the cash dividend payment, which would result in further dilution to our stockholders.

Sales of a substantial number of our shares of Common Stock in the public markets, or the perception that such sales could occur, could cause our stock price to fall.

We may issue and sell additional shares of Common Stock in the public markets, including as part of this offering. As a result, a substantial number of our shares of Common Stock may be sold in the public market. Sales of a substantial number of our shares of Common Stock in the public markets, including in connection with this offering, or the perception that such sales could occur, could depress the market price of our Common Stock and impair our ability to raise capital through the sale of additional equity securities.

We may not receive any additional funds upon the exercise of the Warrants.

In the event that there is not an effective registration statement registering the Warrant Shares, the Warrants may be exercised by way of a cashless exercise, meaning that the holder may not pay a cash purchase price upon exercise, but instead would receive upon such exercise the net number of shares of our Common Stock determined according to the formula set forth in the Warrant. Accordingly, we may not receive any additional funds upon the exercise of the Warrants.

Because we do not currently intend to declare cash dividends on our shares of Common Stock in the foreseeable future, stockholders must rely on appreciation of the value of our Common Stock for any return on their investment.

We have never paid cash dividends on our Common Stock and do not plan to pay any cash dividends in the foreseeable future. We currently intend to retain all of our future earnings, if any, to finance the operation, development and growth of our business. Furthermore, any future debt agreements may also preclude us from paying, or place restrictions on our ability to pay, dividends in cash. As a result, capital appreciation, if any, of our Common Stock will be your sole source of gain with respect to your investment for the foreseeable future.

Risks Related to our Common Stock

We are not in compliance with the Nasdaq continued listing requirements. If we are unable to comply with the continued listing requirements of The Nasdaq Capital Market, our Common Stock could be delisted, which could affect our Common Stock’s market price and liquidity and reduce our ability to raise capital.

On September 26, 2023, we were notified by Nasdaq that for the previous 30 consecutive trading days, the minimum MVLS for our Common Stock was below the MVLS Rule. In accordance with Listing Rule 5810(c)(3)(C), we were provided 180 calendar days, or until March 25, 2024, to regain compliance with the MVLS Rule.

On March 26, 2024, we were notified by Nasdaq that we had not regained compliance with the MVLS Rule. As a result, unless we requested an appeal of this determination, Nasdaq determined that our Common Stock would be scheduled for delisting from The Nasdaq Capital Market and would be suspended at the opening of business on April 4, 2024 and a Form 25-NSE would be filed with the SEC. On April 2, 2024, we requested a hearing before the Panel to appeal the determination. The Panel heard our appeal at a hearing on May 9, 2024. On May 21, 2024, we received notice from the Panel that it granted our request to continue our listing on Nasdaq, subject to us demonstrating compliance, on or before September 23, 2024, with Listing Rule 5550(b)(1), which requires stockholder equity of at least \$2.5 million (or an alternative listing standard), and satisfying all applicable requirements for continued listing on Nasdaq. There can be no assurance as to our ability to demonstrate compliance on or before September 23, 2024.

In addition, on February 1, 2024, we received a notice in the form of a letter from Nasdaq stating that we were not in compliance with Nasdaq Listing Rule 5550(a)(2) because the bid price for our Common Stock had closed below \$1.00 per share for the previous 30 consecutive business days.

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In accordance with Nasdaq Listing Rule 5810(c)(3)(A), we have 180 calendar days, or until July 30, 2024, to regain compliance with the Nasdaq Listing Rule 5550(a)(2). The deficiency letter states that to regain compliance, the bid price for our Common Stock must close at \$1.00 per share or more for a minimum of 10 consecutive business days (the “Minimum Bid Price”) during the compliance period ending July 30, 2024. In the event that we do not regain compliance within this 180-day period, we may be eligible to seek an additional compliance period of 180 calendar days if we meet the continued listing requirement for market value of publicly held shares and all other initial listing standards for The Nasdaq Capital Market, with the exception of the Minimum Bid Price, and provide written notice to Nasdaq of our intent to cure the deficiency during this second compliance period, by effecting a reverse stock split, if necessary. However, if it appears to the Nasdaq staff that we will not be able to cure the deficiency, or if we are otherwise ineligible, Nasdaq will provide us with notice that our Common Stock will be subject to delisting. At that time, we may appeal any such delisting determination to a Nasdaq hearings panel. The deficiency letter has no immediate effect on the listing of our Common Stock, and our Common Stock will continue to trade on The Nasdaq Capital Market under the symbol “ALZN.”

We intend to actively monitor the closing bid price of our Common Stock between now and July 30, 2024 and may, if appropriate, evaluate available options to resolve the deficiency and regain compliance with the Minimum Bid Price requirement. While we are exercising diligent efforts to maintain the listing of our Common Stock on Nasdaq, there can be no assurance that we will be able to regain compliance with the Minimum Bid Price or maintain compliance with the other Nasdaq listing standards.

If our Common Stock is delisted, it could be more difficult to buy or sell our Common Stock and to obtain accurate quotations, and the price of our Common Stock could suffer a material decline. Delisting could also impair the liquidity of our Common Stock and could harm our ability to raise capital through alternative financing sources on terms acceptable to us, or at all, and may result in potential loss of confidence by investors, employees, and fewer business development opportunities.

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PRIVATE PLACEMENT

On the Execution Date, we entered into the Purchase Agreement with the Selling Stockholder, pursuant to which the Selling Stockholder has committed to purchase up to \$25 million of Preferred Shares, subject to the satisfaction of the conditions in the Purchase Agreement, which consist primarily of what we refer to herein as the Milestones.

Such sales of our Preferred Shares, if any, will be subject to certain limitations, and may occur from time to time, i.e., when the Milestones are met over the approximately 18-month period commencing on the date of the Purchase Agreement, provided that this registration statement, of which this prospectus forms a part, and any other registration statement the Company may file from time to time relating to the resale by the Selling Stockholder of Conversion Shares is declared effective by the Securities and Exchange Commission (the “SEC” or the “Commission”) and remains effective, and the other conditions set forth in the Purchase Agreement are satisfied.

The Purchase Agreement contains customary representations, warranties, conditions and indemnification obligations of the parties.

Milestones

Pursuant to the Purchase Agreement, the Selling Stockholder has agreed to purchase up to 2,500 Preferred Shares, of which the first 100 were sold on May 10, 2024 (the “First Tranche”) as discussed below. The sale of the remaining 2,400 Preferred Shares in the private placement is based on our achievement of the Milestones set forth below:

- 150 Preferred Shares, for \$1,500,000, upon the filing of this registration statement (the “Registration Statement”);
- 250 Preferred Shares, for \$2,500,000, within 30 days of the effectiveness of the Registration Statement;
- 200 Preferred Shares, for \$2,000,000, within 60 days of the effectiveness of the Registration Statement and the execution of a partnership agreement with a nationally renowned research facility for a clinical trial (the “Fourth Tranche”); and
- 100 Preferred Shares, for \$1,000,000, on each monthly anniversary of the effectiveness of the Registration Statement until all remaining 1,800 Preferred Shares have been sold (each, a “Final Tranche”).

Notwithstanding the foregoing Milestones, the Selling Stockholder has the ability to invest any amount in its sole discretion in advance of the dates that the foregoing Milestones shall have been met. If we sell to the Selling Stockholder the remaining Preferred Shares upon achievement of the Milestones, we will receive \$24.0 million of gross proceeds, as well as any proceeds that we may receive in the event that Selling Stockholder exercises any of its Warrants for cash. We currently expect to use the net proceeds from the sale of the Preferred Shares for working capital and general corporate purposes.

In the event that the average closing price of the Common Stock during the three trading days preceding the date of a Tranche Closing shall not be equal to or greater than the Floor Price, then the applicable closing shall be delayed until such time as the price meets the required threshold.

We agreed to use our best efforts to file this Registration Statement, registering for resale the shares of Common Stock issuable upon conversion of the Preferred Shares and exercise of the Warrants, with the SEC within 30 days of the Execution Date, and cause the Registration Statement to be declared effective within 90 days of the Execution Date. In the event that we fail to timely file the Registration Statement or it is not declared effective within the agreed upon timeframe, then we agreed to pay the Selling Stockholder liquidated damages equal to 2% of the purchase price of the securities for such failure, and for every 30 day period thereafter, subject to a maximum payment of liquidated damages of 10% of the purchase price.

In addition, we agreed to use our best efforts to hold a special meeting of our stockholders within 90 days of the Execution Date for purposes of seeking stockholder approval of the issuance of all the shares of Common Stock issuable upon conversion of the Preferred Shares and the exercise of the Warrants in excess of the “Nasdaq Limit”, which is 19.99% of our shares of Common Stock issued and outstanding on the Execution Date. We filed a preliminary proxy statement related to the necessary approval with the SEC on May 10, 2024.

The Purchase Agreement provides that the Selling Stockholder shall, for as long as any Preferred Shares remain outstanding, have the right to request, in the event we issue other securities to a different investor (the “Other Investor”) that have more favorable terms than are contained in the Purchase Agreement, the Series A COD and the Warrant, that it be granted the same preferential rights with which we provide the Other Investor.

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Further, for a period of two years from Execution Date (the “Obligation Period”), the Selling Stockholder will have a right of first refusal with respect to any investment proposed to be made by an Other Investor for each and every future public or private equity offering, including a debt instrument convertible into equity of our company during the Obligation Period.

Moreover, during the Obligation Period and provided that at any such time the Selling Stockholder shall hold no fewer than twenty-five (25) shares of Series A Preferred and has not elected to exercise its rights described immediately above, the Selling Stockholder shall have a right to participate in any subsequent financing (a “Subsequent Financing”) allowing the Selling Stockholder to purchase such number of securities in the Subsequent Financing to allow the Selling Stockholder to maintain its percentage beneficial ownership in our company that the Selling Stockholder held immediately prior to the Subsequent Financing.

First Tranche

Pursuant to the Purchase Agreement, the First Tranche consisted of a (i) registered direct offering of 50 Preferred Shares sold to the Selling Stockholder pursuant to the shelf registration statement on Form S-3 (File No. 333-273610) filed with the SEC on August 2, 2023 and declared effective by the SEC on August 10, 2023, a prospectus supplement dated May 10, 2024 and the accompanying prospectus and (ii) a concurrent private placement of 50 Preferred Shares and Warrants to purchase 800,000 Warrant Shares, for aggregate gross proceeds of \$1,000,000, of which \$311,356.16 (which included accrued but unpaid interest) was paid by the Selling Stockholder by the surrender for cancellation of a term note issued by the Company to the Selling Stockholder on April 29, 2024 in the principal face amount of \$310,000.

Preferred Shares

General

The following is a brief summary of certain terms and conditions of the Preferred Shares. The following description is subject in all respects to the provisions contained in the Series A COD, which is incorporated by reference as an exhibit to the registration statement of which this prospectus forms a part. Capitalized terms not otherwise defined in this description of the Preferred Shares shall have the meanings ascribed to such terms in the Series A COD. The Preferred Shares are governed by the Series A COD, which was filed with the Delaware Secretary of State on May 9, 2024, and are distinct from the series A convertible preferred stock that the Company previously had designated and was governed by a certificate of designation filed with the Delaware Secretary of State on August 2, 2016 (the “Old Series A Preferred”). The Old Series A Preferred was eliminated pursuant to a Certificate of Elimination of the Certificate of Designations, filed with the Delaware Secretary of State on March 1, 2024.

Dividends

Holders of the Preferred Shares will be entitled to receive dividends at the rate of 15% per annum, payable quarterly in arrears in cash or PIK Shares, in the Selling Stockholder’s sole discretion.

Conversion

Each Preferred Share is convertible into such number of shares of Common Stock equal to the Stated Value divided by (y) the greater of (i) the Floor Price and (ii) the lesser of (A) \$1.50 and (B) 80% of the lowest closing price of our Common Stock during the three trading days immediately prior to the date of conversion into Conversion Shares. The Conversion Price is subject to adjustment in the event of an issuance of Common Stock at a price per share lower than the Conversion Price then in effect, but not below the Floor Price. The Floor Price shall, however, be adjusted for stock dividends, stock splits, stock combinations or other similar transactions. Notwithstanding the foregoing, in no event shall a reduction in the Conversion Price as a result of a dilutive issuance reduce the Conversion Price below the Floor Price.

Voting Rights

The holders of the Preferred Shares are entitled to vote with the Common Stock as a single class on an as-converted basis, subject to applicable law provisions of the Delaware General Corporation Law and the rules of the Nasdaq, provided however, that for purposes of complying with Nasdaq rules, the conversion price, for purposes of determining the number of votes the holder of Preferred Shares is entitled to cast, shall not be lower than \$0.563 (the “Voting Floor Price”), which represents the closing sale price of the Common Stock on the trading day immediately prior to the Execution Date. The Voting Floor Price shall be adjusted for stock dividends, stock splits, stock combinations and other similar transactions.

Exchange Cap

The Preferred Shares will not be convertible into shares of Common Stock in excess of the Nasdaq Limit, except in the event that the Company obtains stockholder approval for issuances of Conversion Shares in excess of the Nasdaq Limit. Until such approval, no holder of Preferred Shares shall be issued in the aggregate more shares of Common Stock than the Nasdaq Limit.

Beneficial Ownership Limitations

A holder of the Preferred Shares will not have the right to convert any such shares, and the Company will not effect any conversion of any Preferred Shares, to the extent that after giving effect to such conversion, the holder would beneficially own in excess of 4.99% of the outstanding shares of our Common Stock calculated in accordance with Section 13(d) of the Exchange Act. However, any holder may increase or decrease such beneficial ownership limitation upon notice to us, provided that such limitation cannot exceed 9.99%, and provided that any increase in the beneficial ownership limitation shall not be effective until 61 days after such notice is delivered.

Exchange Listing

There is no established trading market for the Preferred Shares and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the Preferred Shares on any national securities exchange or other trading market. Without an active trading market, the liquidity of the Preferred Shares will be extremely limited.

Liquidation

In the event of liquidation, dissolution, or winding up of the Company, the holders of Preferred Shares have a preferential right to receive an amount equal to the Stated Value of Preferred Shares before any distribution to other classes of capital stock. If the assets are insufficient, the distribution will be prorated among the holders of Preferred Shares. The Preferred Shares rank senior over other classes of preferred stock, including the Series B convertible preferred stock. Additionally, any transaction that constitutes a Change of Control Event (as defined in the Series A COD) shall be deemed to be a liquidation under the Series A COD.

Warrants

The Selling Stockholder shall receive Warrants to purchase a number of shares of our Common Stock equal to the quotient obtained by dividing the purchase price paid by the Selling Stockholder for the Preferred Shares at each tranche closing by 1.25. Upon the closing of the initial Tranche Closing, the Selling Stockholder received Warrants to purchase 800,000 shares of our Common Stock. Upon completion of all tranche closings, the Selling Stockholder shall have received Warrants to purchase an aggregate of 20 million shares of our Common Stock.

Duration and Exercise Price

Each Warrant will be exercisable for one share of our Common Stock at an exercise price of \$1.25 per share, will be exercisable immediately upon issuance and will

have a term of five years from the date of issuance. The exercise price is subject to customary adjustments for stock dividends, stock splits, reclassifications and the like.

Exercisability

The Warrants will be exercisable, at the option of the holder, in whole or in part, by delivering to us a duly executed exercise notice accompanied by payment in full for the number of shares of our Common Stock purchased upon such exercise (except in the case of a cashless exercise as discussed below). A holder (together with its affiliates) may not exercise any portion of such holder's Warrants to the extent that the holder would own more than 4.99% (or 9.99%, at the holder's election) of our outstanding Common Stock immediately after exercise, except that upon notice from the holder to us, the holder may decrease or increase the limitation of ownership of outstanding Common Stock after exercising the holder's Warrants up to 9.99% of the number of shares of our Common Stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the Warrants, provided that any increase in such limitation shall not be effective until 61 days following notice to us.

Cashless Exercise

If, at the time a holder exercises its Warrants, a registration statement registering the issuance of the shares of common stock underlying the Warrants under the Securities Act of 1933, as amended (the "Securities Act"), is not then effective or available for the issuance of such shares, then in lieu of making the cash payment otherwise contemplated to be made to us upon such exercise in payment of the aggregate exercise price, the holder may elect instead to receive upon such exercise (either in whole or in part) the net number of shares of Common Stock determined according to a formula set forth in the Warrant.

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Fractional Shares

No fractional shares of Common Stock will be issued upon the exercise of the Warrants. Rather, the number of shares of Common Stock to be issued will be rounded up to the nearest whole number.

Rights as a Shareholder

The holders of Warrants do not have the rights or privileges of holders of our Common Stock, including any voting rights, until such holders exercise their Warrants.

Fees

The Company agreed to pay Ault Lending, LLC, a related party, an origination fee of five percent (5%) of the total gross proceeds received by the Company from the Selling Stockholder upon each purchase of Preferred Shares. The Company has also agreed to pay the Selling Stockholder a fee of \$100,000 upon each of the First Tranche, the Fourth Tranche and the third, eighth and thirteenth closings constituting parts of the Final Tranche.

No Short-Selling or Hedging by the Selling Stockholder

The Selling Stockholder has agreed that, during the term of the Purchase Agreement, neither the Selling Stockholder nor any of its affiliates will engage in any short sales or hedging transactions with respect to our Common Stock.

Termination of the Purchase Agreement

Unless earlier terminated as provided in the Purchase Agreement, the Purchase Agreement will terminate automatically on the earliest to occur of:

- the first day of the month next following the 18-month anniversary of the date of effectiveness of the Registration Statement; or
- the date on which the Selling Stockholder shall have purchased Preferred Shares under the Purchase Agreement for an aggregate gross purchase price equal to \$25 million under the Purchase Agreement.

USE OF PROCEEDS

We will not receive any proceeds from the sale of shares of common stock by the Selling Stockholder, provided, that we would receive certain proceeds in the event that the Selling Stockholder elects to exercise its Warrants. Any proceeds we receive from the exercise of Warrants would be used for general working capital purposes. We will bear all of the expenses of this offering, and such expenses will be paid out of our general funds.

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DESCRIPTION OF SECURITIES BEING OFFERED

The following description of our securities is intended as a summary only. We refer you to our Annual Report on Form 10-K for the fiscal year ended April 30, 2023, amended and restated certificate of incorporation (the "Certificate of Incorporation") and amended and restated bylaws (the "Bylaws"), which are incorporated by reference into this prospectus, and to the applicable provisions of the Delaware General Corporation Law ("DGCL"). This description may not contain all of the information that is important to you and is subject to, and is qualified in its entirety by reference to, our Annual Report on Form 10-K for the fiscal year ended April 30, 2023, any subsequent Quarterly Reports on Form 10-Q, our Certificate of Incorporation, our Bylaws, the other documents incorporated by reference herein and the applicable provisions of the DGCL. For information on how to obtain copies of our Annual Report on Form 10-K for the fiscal year ended April 30, 2023, our subsequent Quarterly Reports on Form 10-Q, our Certificate of Incorporation and our Bylaws, see "Where You Can Find More Information."

We are registering up to 125,000,000 shares of our Common Stock issuable from time to time upon conversion of the Preferred Shares and exercise of the Warrants.

Common Stock

We are authorized to issue 300,000,000 shares of Common Stock, par value \$0.001 per share. As of May 31, 2024, there were 7,376,011 shares of our Common Stock issued and outstanding. The outstanding shares of our Common Stock are validly issued, fully paid and nonassessable.

Holders of our shares of Common Stock are entitled to one vote for each share on all matters submitted to a shareholder vote. Holders of our Common Stock do not have cumulative voting rights. Therefore, holders of a majority of the shares of our Common Stock voting for the election of directors can elect all of the directors. Holders of our Common Stock representing a majority of the voting power of our capital stock issued, outstanding and entitled to vote, represented in person or by proxy, are necessary to constitute a quorum at any meeting of shareholders. A vote by the holders of a majority of our outstanding shares of capital stock is required to effectuate certain fundamental

corporate changes such as liquidation, merger or an amendment to our certificate of incorporation.

Holders of our Common Stock are entitled to share in all dividends that our Board of Directors, in its discretion, declares from legally available funds. In the event of a liquidation, dissolution or winding up, each outstanding share entitles its holder to participate pro rata in all assets that remain after payment of liabilities and after providing for each class of stock, if any, having preference over our Common Stock. Our Common Stock has no preemptive, subscription or conversion rights and there are no redemption provisions applicable to our Common Stock.

Transfer Agent and Registrar

The Transfer Agent and Registrar for our common stock is Computershare, 8742 Lucent Blvd., Suite 225, Highlands Ranch, CO 80129.

Our Common Stock is listed on the Nasdaq Capital Market under the symbol “ALZN.”

SELLING STOCKHOLDER

This prospectus relates to the offer and sale by the Selling Stockholder of up to 125,000,000 shares of our Common Stock that may be issued by us to the Selling Stockholder upon conversion of the Preferred Shares and exercise of the Warrants as provided for in the Purchase Agreement. For additional information regarding the shares of our Common Stock included in this prospectus, see the sections titled “*Private Placement*” and “*Description of Securities Being Offered*” above. We are registering the shares of Common Stock included in this prospectus pursuant to the Purchase Agreement, in order to permit the Selling Stockholder to offer the shares included in this prospectus for resale from time to time. Except for the transactions contemplated by the Purchase Agreement and as set forth in this section below, the Selling Stockholder has not had any material relationship with us within the past three years.

The table below presents information regarding the Selling Stockholder and the shares of our Common Stock that may be resold by the Selling Stockholder from time to time under this prospectus. This table is prepared based on information supplied to us by the Selling Stockholder, and reflects holdings as of May 31, 2024. The number of shares in the column “Securities to be Sold in this Offering” represents all of the shares of our Common Stock being offered for resale by the Selling Stockholder under this prospectus. The Selling Stockholder may sell some, all or none of the shares being offered for resale in this offering. We do not know how long the Selling Stockholder will hold the shares before selling them. Except as set forth in the section titled “*Plan of Distribution*” in this prospectus, we are not aware of any existing arrangements between the Selling Stockholder and any other stockholder, broker, dealer, underwriter or agent relating to the sale or distribution of the shares of our common stock being offered for resale by this prospectus.

Beneficial ownership is determined in accordance with Rule 13d-3(d) promulgated by the SEC under the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and includes shares of our Common Stock with respect to which the Selling Stockholder has sole or shared voting and investment power. The percentage of shares of our Common Stock beneficially owned by the Selling Stockholder prior to the offering shown in the table below is based on an aggregate of 7,376,011 shares of common stock outstanding on May 31, 2024. The fourth column assumes the resale by the Selling Stockholder of all of the shares of our Common Stock being offered for resale pursuant to this prospectus.

Name of Selling Stockholder	Securities Beneficially Owned Prior to this Offering ⁽¹⁾		Securities to be Sold in this Offering ⁽²⁾		Securities Beneficially Owned After this Offering	
	Number	Percentage ⁽³⁾	Shares of Common Stock Underlying Preferred Shares	Shares of Common Stock Underlying Warrants	Number	Percentage
Orchid Finance LLC ⁽⁴⁾	373,732	4.99%	105,000,000	20,000,000	—	—

- (1) The Purchase Agreement, Series A COD and Warrants prohibit us from issuing any shares of Common Stock to the Selling Stockholder to the extent such shares, when converted and/or exercised, as applicable, and aggregated with all other shares of our Common Stock then beneficially owned by the Selling Stockholder, would cause the Selling Stockholder’s beneficial ownership of our Common Stock to exceed the 4.99% ownership limitation. The ownership limitation may not be amended or waived under the Purchase Agreement, except that it may be increased to 9.99% upon 61 days’ notice to us.
- (2) Includes (i) 260,113 shares of common stock currently owned by the Selling Stockholder and (ii) 113,619 shares of Common Stock issuable upon conversion of approximately 5,2510 Preferred Shares owned by the Selling Stockholder as of May 31, 2024. Does not include additional shares of Common Stock issuable upon (i) conversion of approximately 73,5726 Preferred Shares or (ii) exercise of Warrants to purchase 800,000 Warrant Shares, owned by the Selling Stockholder due to the 4.99% beneficial ownership limitation.
- (3) Applicable percentage ownership is based on 7,376,011 shares of common stock outstanding as of May 31, 2024.
- (4) The Selling Stockholder is controlled by Thomas Paul Harrison. Mr. Harrison has sole voting and dispositive power over the shares. The business address of the Selling Stockholder is 11378 Villa Bellagio Drive, Las Vegas, NV 89141.

PLAN OF DISTRIBUTION

The Selling Stockholder and any of its pledgees, assignees and successors-in-interest, may, from time to time, sell any or all of its Common Stock covered by this prospectus hereby on the principal trading market or any other stock exchange, market or trading facility on which our Common Stock are traded or in private transactions.

These sales may be at fixed or negotiated prices. The Selling Stockholder may use any one or more of the following methods when selling such Common Stock:

- ordinary brokerage transactions and transactions in which a broker dealer solicits purchasers;
- block trades in which a broker dealer will attempt to sell the Common Stock as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker dealer as principal and resale by a broker dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;

- privately negotiated transactions;
- to cover short sales made after the date that the registration statement of which this prospectus is a part is declared effective by the SEC;
- in transactions through broker dealers that agree with the Selling Stockholder to sell a specified number of such Common Stock at a stipulated price per share;
- 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 registered shares may also be sold under Rule 144 under the Securities Act, if available for the Selling Stockholder, rather than under this prospectus. The Selling Stockholder has the sole and absolute discretion not to accept any purchase offer or make any sale of registered shares if it deems the purchase price to be unsatisfactory at any particular time.

The Selling Stockholder may pledge their registered shares to brokers under the margin provisions of customer agreements. If the Selling Stockholder defaults on a margin loan, the broker may, from time to time, offer and sell the pledged registered shares. The Selling Stockholder 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 Common Stock offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The Selling Stockholder and any broker-dealers or agents that are involved in selling the registered shares offered under this prospectus may be deemed to be “underwriters” within the meaning of the Securities Act in connection with these sales. Commissions received by these broker-dealers or agents and any profit on the resale of the registered shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Any broker-dealers or agents that are deemed to be underwriters may not sell registered shares offered under this prospectus unless and until we set forth the names of the underwriters and the material details of their underwriting arrangements in a supplement to this prospectus or, if required, in a replacement prospectus included in a post-effective amendment to the registration statement of which this prospectus is a part.

The Selling Stockholder and any other persons participating in the sale or distribution of the registered shares offered under this prospectus will be subject to applicable provisions of the Exchange Act, and the rules and regulations under that act, including Regulation M. These provisions may restrict activities of, and limit the timing of purchases and sales of any of the registered shares by, the Selling Stockholder or any other person. Furthermore, under Regulation M, persons engaged in a distribution of securities are prohibited from simultaneously engaging in market making and other activities with respect to those securities for a specified period of time prior to the commencement of such distributions, subject to specified exceptions or exemptions. All of these limitations may affect the marketability of the registered shares. We will make copies of this prospectus available to the Selling Stockholder 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).

If any of the registered shares offered for sale pursuant to this prospectus are transferred other than pursuant to a sale under this prospectus, then subsequent holders could not use this prospectus until a post-effective amendment or prospectus supplement is filed, naming such holders. We offer no assurance as to whether the Selling Stockholder will sell all or any portion of the registered shares offered under this prospectus.

The Company will pay all fees and expenses incident to the registration of the registered shares being offered under this prospectus. The Selling Stockholder is individually responsible for paying any discounts, commissions and similar selling expenses it incurs.

We and the Selling Stockholder have agreed to indemnify one another against certain losses, damages and liabilities arising in connection with this prospectus, including liabilities under the Securities Act.

LEGAL MATTERS

Olshan Frome Wolosky LLP, New York, New York, will pass upon the validity of the securities offered hereby as our counsel.

EXPERTS

The financial statements of Alzamend Neuro, Inc. as of April 30, 2023 and 2022 and for each of the two years in the period ended April 30, 2023 incorporated by reference in this prospectus and registration statement from our Annual Report on Form 10-K for the years ended April 30, 2023 and 2022, have been audited by Baker Tilly US, LLP, an independent registered public accounting firm, as stated in their report thereon (which report expresses an unqualified opinion and includes an explanatory paragraph relating to the Company’s ability to continue as a going concern), incorporated herein by reference, and have been incorporated in this prospectus and registration statement in reliance upon such report and upon the authority of such firm as experts in accounting and auditing.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference the information we file with it, which means that we can disclose important information to you by referring you to those documents. The information we incorporate by reference is considered to be part of this prospectus, and information that we file later with the SEC will automatically update and supersede this information. We incorporate by reference the documents listed below and any future filings made by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, until the sale of all of the securities that are part of this offering. The documents we are incorporating by reference are as follows:

- Our Annual Report on Form 10-K for the fiscal year ended April 30, 2023, filed with the SEC on [July 27, 2023](#);
- Our Quarterly Reports on Form 10-Q for the quarters ended July 31, 2023 filed with the SEC on [September 13, 2023](#), October 31, 2023 filed with the SEC on [December 15, 2023](#) and January 31, 2024 filed with the SEC on [March 25, 2024](#);
- Our Definitive Proxy Statement on Schedule 14A, filed with the SEC on [March 25, 2024](#);
- Our Current Reports on Form 8-K (other than information furnished rather than filed) filed with the SEC on [August 7, 2023](#), [August 16, 2023](#), [September 8, 2023](#), [September 29, 2023](#), [October 30, 2023](#) (Item 5.03 only), [January 5, 2024](#), [February 2, 2024](#), [March 7, 2024](#), [March 22, 2024](#), [March 29, 2024](#), [April 30, 2024](#), [May 1, 2024](#), [May 7, 2024](#) (Item 1.02 only), [May 9, 2024](#), [May 9, 2024](#) (as amended on [May 10, 2024](#)) and [May 13, 2024](#); and
- The description of our common stock which is registered under Section 12(b) of the Exchange Act, in our registration statement on Form 8-A, filed on [June 11, 2021](#) (File No. 001-40483), including any amendment or reports filed for the purposes of updating this description.

All documents filed pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act, after the date of this registration statement and prior to termination of this offering shall be deemed to be incorporated by reference into this registration statement and to be a part hereof from the date of filing of such documents, provided, however, that the registrant is not incorporating any information furnished under either Item 2.02 or Item 7.01 of any Current Report on Form 8-K. These documents include periodic reports, such as Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as proxy statements.

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

We will provide you, without charge upon written or oral request, a copy of any and all of the information that has been incorporated by reference in this prospectus and that has not been delivered with this prospectus. Requests should be directed to Alzamend Neuro, Inc., 3480 Peachtree Road NE, Second Floor, Suite 103, Atlanta, GA 30326; Tel.: (844) 722-6333; Attention: Mr. Stephan Jackman, Chief Executive Officer. A copy of any and all of the information that has been incorporated by reference in this prospectus may also be accessed on our website at <https://ir.alzamend.com/sec-filings>.

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WHERE YOU CAN FIND MORE INFORMATION

We have filed with the Commission a registration statement on Form S-1 under the Securities Act, with respect to the securities covered by this prospectus. This prospectus and any prospectus supplement which forms a part of the registration statement, does not contain all of the information set forth in the registration statement or the exhibits and schedules filed therewith. For further information with respect to us and the securities covered by this prospectus, please see the registration statement and the exhibits filed with the registration statement. Any statements made in this prospectus or any prospectus supplement concerning legal documents are not necessarily complete and you should read the documents that are filed as exhibits to the registration statement or otherwise filed with the Commission for a more complete understanding of the document or matter. A copy of the registration statement and the exhibits filed with the registration statement may be inspected without charge at the Public Reference Room maintained by the Commission, located at 100 F Street, N.E., Washington, D.C. 20549. Please call the Commission at 1-800-SEC-0330 for more information about the operation of the Public Reference Room. The Commission also maintains an internet website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the Commission. The address of the website is <http://www.sec.gov>.

We file annual, quarterly and current reports, proxy statements and other information with the Commission. You may read, without charge, and copy the documents we file at the Commission's public reference room in Washington, D.C. at 100 F Street, N.E., Washington, D.C. 20549. You can request copies of these documents by writing to the Commission and paying a fee for the copying cost. Please call the Commission at 1-800-SEC-0330 for further information on the public reference rooms. Our filings with the Commission are available to the public at no cost from the SEC's website at <http://www.sec.gov>.

The reports and other information filed by us with the Commission are also available at our website, www.alzamend.com. Information contained on our website or that can be accessed through our website is not incorporated by reference into this prospectus or any prospectus supplement and should not be considered to be part of this prospectus or any prospectus supplement.

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PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution

The following table sets forth the fees and expenses payable by the registrant in connection with the issuance and distribution of the securities being registered. All of the amounts shown are estimates, except for the SEC registration fee:

	Amount to be paid
SEC registration fee	\$ 10,749
Accounting fees and expenses	10,000
Legal fees and expenses	10,000
Printing and miscellaneous expenses	5,000
Total	<u>\$ 35,749</u>

Item 14. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law (the "DGCL") empowers a Delaware corporation to indemnify any persons who are, or are threatened to be made, parties 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 such corporation), by reason of the fact that such person was an officer or director of such 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 that such officer or director acted in good faith and in a manner he reasonably believed to be in or not opposed to the corporation's best interests, and, for criminal proceedings, had no reasonable cause to believe his conduct was illegal. A Delaware corporation may indemnify officers and 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 in the performance of his duty. 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 against the expenses which such officer or director actually and reasonably incurred.

Our bylaws provide that we will indemnify our directors and officers to the fullest extent permitted by Delaware law, except that no indemnification will be provided to a director, officer, employee, or agent if the indemnification sought is in connection with a proceeding initiated by such person without the authorization of our board of directors. The bylaws also provide that the right of directors and officers to indemnification shall be a contract right and shall not be exclusive of any other right now possessed or hereafter acquired under any statute, provision of the certificate of incorporation, bylaw, agreement, vote of stockholders or disinterested directors or otherwise. The bylaws also permit us to secure insurance on behalf of any officer, director, employee, or other agent for any liability arising out of his or her actions in such capacity, regardless of whether the bylaws would permit indemnification of any such liability.

In accordance with Section 102(b)(7) of the DGCL, our certificate of incorporation provides that directors shall not be personally liable for monetary damages for breaches of their fiduciary duty as directors except for (i) breaches of their duty of loyalty to us or our stockholders, (ii) acts or omissions not in good faith or which involve intentional misconduct or knowing violations of law, (iii) certain transactions under Section 174 of the DGCL (unlawful payment of dividends or unlawful stock purchases or redemptions), or (iv) transactions from which a director derives an improper personal benefit. The effect of this provision is to eliminate the personal liability of directors for monetary damages or actions involving a breach of their fiduciary duty of care, including any actions involving gross negligence.

In addition, we have entered into indemnification agreements with our directors and officers that require us, among other things, to indemnify them against certain liabilities that may arise by reason of their status or service, so long as the indemnitee acted in good faith and in a manner the indemnitee reasonably believed to be in or not opposed to the best interests of the Registrant, and, with respect to any criminal action or proceeding, the indemnitee had no reasonable cause to believe his or her conduct was unlawful. We also maintain director and officer liability insurance to insure our directors and officers against the cost of defense, settlement or payment of a judgment under specified circumstances.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the Registrant pursuant to the foregoing provisions, the Registrant has been informed that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

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Item 15. Recent Sales of Unregistered Securities

In June 2021, upon the closing of our initial public offering, we issued 1,000,000 shares of our common stock to Ault Life Sciences, Inc. upon conversion of 750 shares of our series A convertible preferred stock then outstanding. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act.

In July 2021, we sold 88,888 shares of common stock and warrants to purchase 44,444 shares of common stock to Ault Lending, LLC (then, Digital Power Lending, LLC) for \$2 million. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

In December 2021, we issued an aggregate of 16,817 shares of common stock upon conversion of outstanding debt, at a price of \$22.50 per share. The issuance of the shares of common stock upon exercise of the stock options was not registered under the Securities Act in reliance on the exemption from registration under Section 4(a)(2) of the Securities Act.

In March 2022, we sold 177,778 shares of common stock and warrants to purchase 88,889 shares of common stock to Ault Lending, LLC for \$4 million. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

In November 2022, we entered into a marketing and brand development agreement with Ault Alliance, Inc. (then Bitnile Holdings, Inc.), effective August 1, 2022, whereby Ault Alliance, Inc. provided various marketing services over twelve months valued at \$1.4 million. We had the right to pay the fee in cash or shares of our common stock with a value of \$22.50 per share. On November 11, 2022, we elected to pay the fee by issuing 62,222 shares of our common stock. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act.

In January 2024, we sold 1,220 shares of Series B convertible preferred stock and warrants to purchase 1,220,000 shares to Ault Lending, LLC for \$1.22 million. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

In March 2024, we sold 780 shares of Series B convertible preferred stock and warrants to purchase 780,000 shares to Ault Lending, LLC for \$780,000. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

In April 2024, we sold 100 shares of Series B convertible preferred stock and warrants to purchase 100,000 shares to Ault Lending, LLC for \$100,000. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

In May 2024, we sold 50 shares of Series A convertible preferred stock and warrants to purchase 800,000 shares to Orchid Finance LLC for \$500,000. This issuance of securities was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 promulgated thereunder as a transaction not involving a public offering.

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Item 16. Exhibits

The following is a list of exhibits filed as a part of this registration statement:

Exhibit No.	Exhibit Description
3.1	Certificate of Incorporation (incorporated by reference to Exhibit 2.1 of Form DOS filed with the SEC on August 19, 2016).
3.2	Certificate of Amendment to the Certificate of Incorporation, filed with the Delaware Secretary of State on June 10, 2016 (incorporated by reference to Exhibit 3.2 of the Quarterly Report on Form 10-Q filed with the SEC on December 15, 2023).
3.3	Certificate of Amendment to the Certificate of Incorporation, filed with the Delaware Secretary of State on December 22, 2020 (incorporated by reference to Exhibit 3.3 of the Quarterly Report on Form 10-Q filed with the SEC on December 15, 2023).
3.4	Certificate of Amendment to the Certificate of Incorporation, filed with the Delaware Secretary of State on October 27, 2023 (incorporated by reference to Exhibit 3.1 of the Current Report on Form 8-K filed with the SEC on October 30, 2023).
3.5	Amended and Restated Certificate of Designations of Preferences, Rights and Limitations of Series B Convertible Preferred Stock, filed with the Delaware Secretary of State on March 1, 2024 (incorporated by reference to Exhibit 3.1 of the Current Report on Form 8-K filed with the SEC on March 7, 2024).
3.6	Certificate of Amendment to the Amended and Restated Certificate of Designations of Preferences, Rights and Limitations of Series B Convertible Preferred Stock, filed with the Delaware Secretary of State on March 21, 2024 (incorporated by reference to Exhibit 3.1 of the Current Report on Form 8-K filed with the SEC on March 22, 2024).
3.7	Certificate of Designations of Preferences and Rights of Series A Preferred Stock, as filed with the Delaware Secretary of State on May 9, 2024 (incorporated by reference to Exhibit 3.1 of the amended Current Report on Form 8-K/A filed with the SEC on May 10, 2024).
3.8	Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 of the registration statement on Form S-1 filed with the SEC on May 10, 2021).
4.1	Form of Warrant issued to Ault Lending, LLC (formerly, Digital Power Lending, LLC), dated March 9, 2021 (incorporated by reference to Exhibit 3.1 of Form 1-U filed with the SEC on March 12, 2021).
4.2	Form of Warrant (incorporated by reference to Exhibit 10.2 of the Current Report on Form 8-K filed with the SEC on February 2, 2024).
4.3	Form of Warrant (incorporated by reference to Exhibit 4.1 of the Current Report on Form 8-K filed with the SEC on May 9, 2024).
5.1*	Legal opinion of Olshan Frome Wolosky LLP.

10.1	Standard Exclusive License Agreement with Sublicensing Terms with the University of South Florida Research Foundation, Inc., dated May 1, 2016 (incorporated by reference to Exhibit 6.1 of Form DOS/A filed with the SEC on September 29, 2016).
10.2	Standard Exclusive License Agreement with Sublicensing Terms Number LIC18110 with the University of South Florida Research Foundation, Inc., dated July 2, 2018 (incorporated by reference to Exhibit 6.3 of Form 1-K filed with the SEC on February 21, 2019).
10.3	Standard Exclusive License Agreement with Sublicensing Terms Number LIC18111 with the University of South Florida Research Foundation, Inc., dated July 2, 2018 (incorporated by reference to Exhibit 6.4 of Form 1-K filed with the SEC on February 21, 2019).
10.4	Standard Exclusive License Agreement with Sublicensing Terms Number LIC19050 with the University of South Florida Research Foundation, Inc., dated June 10, 2020 (incorporated by reference to Exhibit 6.6 of Form 1-K filed with the SEC on August 28, 2020).
10.5	Standard Exclusive License Agreement with Sublicensing Terms Number LIC19051 with the University of South Florida Research Foundation, Inc., dated June 10, 2020 (incorporated by reference to Exhibit 6.7 of Form 1-K filed with the SEC on August 28, 2020).
10.6+	Employment Agreement with Stephan Jackman, dated June 17, 2021 (incorporated by reference to Exhibit 10.01 of Form 8-K filed with the SEC on June 22, 2021)
10.7	Board Letter Agreement, dated May 6, 2021, between Alzamend Neuro, Inc. and Milton C. Ault III (incorporated by reference to Exhibit 10.17 of Form S-1/A filed with the SEC on May 25, 2021).
10.8+	2016 Amended and Restated Stock Incentive Plan (incorporated by reference to Exhibit 99.1 of Form S-8 filed with the SEC on July 13, 2021).
10.9+	2021 Stock Incentive Plan (incorporated by reference to Exhibit 99.2 of Form S-8 filed with the SEC on July 13, 2021).
10.10	Form of Amendment to Standard Exclusive License Agreement with Sublicensing Terms with the University of South Florida Research Foundation, Inc., dated April 16, 2023 (incorporated by reference to Exhibit 10.13 of annual report on Form 10-K filed with the SEC on July 27, 2023).
10.11	Form of Amendment to Standard Exclusive License Agreement with Sublicensing Terms Number LIC19050 with the University of South Florida Research Foundation, Inc., dated April 16, 2023 (incorporated by reference to Exhibit 10.14 of annual report on Form 10-K filed with the SEC on July 27, 2023).
10.12	Form of Amendment to Standard Exclusive License Agreement with Sublicensing Terms Number LIC19051 with the University of South Florida Research Foundation, Inc., dated April 16, 2023 (incorporated by reference to Exhibit 10.15 of annual report on Form 10-K filed with the SEC on July 27, 2023).
10.13	Form of Amendment to Standard Exclusive License Agreement with Sublicensing Terms Number LIC18110 with the University of South Florida Research Foundation, Inc., dated June 8, 2023 (incorporated by reference to Exhibit 10.16 of annual report on Form 10-K filed with the SEC on July 27, 2023).
10.14	Form of Amendment to Standard Exclusive License Agreement with Sublicensing Terms Number LIC18111 with the University of South Florida Research Foundation, Inc., dated June 8, 2023 (incorporated by reference to Exhibit 10.17 of annual report on Form 10-K filed with the SEC on July 27, 2023).
10.15	Securities Purchase Agreement, dated January 31, 2024 (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on February 2, 2024).
10.16	At-The-Market Issuance Sales Agreement, dated September 8, 2023, with Ascendant Capital Markets, LLC (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on September 8, 2023).
10.17	Form of Term Note (incorporated by reference to Exhibit 4.1 of the Current Report on Form 8-K filed with the SEC on April 30, 2024).
10.18	Form of Guaranty (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on April 30, 2024).
10.19	Form of Securities Purchase Agreement (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on May 9, 2024).
10.20	Form of Registration Rights Agreement (incorporated by reference to Exhibit 10.2 of the Current Report on Form 8-K filed with the SEC on May 9, 2024).
21.1*	List of Subsidiaries.
23.1*	Consent of Baker Tilly US, LLP, Independent Registered Public Accounting Firm.
23.2*	Consent of Olshan Frome Wolosky LLP (included in Exhibit 5.1).
24.1*	Power of Attorney (included on signature page of the Registration Statement).
107*	Calculation of Filing Fee Table.

*Filed herewith.

+ Indicates management contract or compensatory plan.

Item 17. Undertakings

(a) The undersigned registrant hereby undertakes as follows:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - i. To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - 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 SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Filing Fee Tables" filed as an exhibit to the effective registration statement; and
 - 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), (ii), (iii) above do not apply if the registration statement is on Form S-1 and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission 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 of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser, 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.

(b) The undersigned registrant hereby undertakes to respond to requests for information that is incorporated by reference into the prospectus pursuant to Item 4, 10(b), 11, or 13 of this form, within one business day of receipt of such request, and to send the incorporated documents by first class mail or other equally prompt means. This includes information contained in documents filed subsequent to the effective date of the registration statement through the date of responding to the request.

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.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Atlanta, Georgia, on June 3, 2024.

ALZAMEND NEURO, INC.

By: /s/ Stephan Jackman
Stephan Jackman
Chief Executive Officer (principal executive officer)

By: /s/ David Katzoff
David Katzoff
Chief Financial Officer (principal financial and accounting officer)

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints each of Stephan Jackman and David Katzoff as his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign one or more registration statements on Form S-1 and any and all amendments and supplements to such registration statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the United States Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his or her substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

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

Signature	Title	Date
<u>/s/ William B. Horne</u> William B. Horne	Chairman of the Board	June 3, 2024
/s/ Stephan Jackman Stephan Jackman	Chief Executive Officer (principal executive officer) and Director	June 3, 2024
/s/ David J. Katzoff David J. Katzoff	Chief Financial Officer (principal financial and accounting officer)	June 3, 2024
/s/ Henry C.W. Nisser Henry C.W. Nisser	Executive Vice President, General Counsel and Director	June 3, 2024
<u>/s/ Milton C. Ault, III</u> Milton C. Ault, III	Director	June 3, 2024
/s/ Mark Gustafson Mark Gustafson	Director	June 3, 2024
/s/ Andrew Woo Andrew Woo	Director	June 3, 2024
/s/ Lynne McGrath Lynne McGrath	Director	June 3, 2024
<u>/s/ Jeffrey Oram</u> Jeffrey Oram	Director	June 3, 2024

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June 3, 2024

Alzamed Neuro, Inc.
3480 Peachtree Road NE, Second Floor, Suite 103
Atlanta, GA 30326

Ladies and Gentlemen:

We are acting as counsel to Alzamed Neuro, Inc., a Delaware corporation (the “Company”), in connection with the Registration Statement on Form S-1 filed by the Company on June 3, 2024 (the “Registration Statement”) with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the “Act”), relating to the offer and resale from time to time by the selling stockholder identified in the prospectus constituting a part of the Registration Statement (the “Prospectus”) of up to 125,000,000 shares of the Company’s common stock, par value \$0.0001 per share (the “Common Stock”), which may be issued pursuant to a securities purchase agreement, dated May 8, 2024, between the Company and Orchid Finance LLC (the “Purchase Agreement”).

We advise you that we have examined executed originals or copies certified or otherwise identified to our satisfaction of the following documents: (a) the Registration Statement, (b) the Prospectus, (c) the Purchase Agreement, (d) the Company’s Certificate of Incorporation, as amended to date, (e) the Company’s Amended and Restated Bylaws, as amended to date, and (f) certain resolutions adopted by the Board of Directors of the Company. In addition, we have examined and relied upon such corporate records and other documents, instruments and certificates of officers and representatives of the Company and of public officials, and we have made such examination of law, as we have deemed necessary or appropriate for purposes of the opinion expressed below.

We have assumed for purposes of rendering the opinions set forth herein, without any verification by us:

(i) the genuineness of all signatures, the legal capacity of all natural persons to execute and deliver documents, the authenticity and completeness of documents submitted to us as originals and the completeness and conformity with authentic original documents of all documents submitted to us as copies, that all documents, books and records made available to us by the Company are accurate and complete; and

(ii) that the Purchase Agreement has been duly authorized, executed and delivered by each party thereto (other than the Company), that each such party (other than the Company) is duly organized, validly existing and in good standing under the laws of its jurisdiction of organization and all jurisdictions where it is conducting business or otherwise required to be so qualified, that each such party (other than the Company) has full power, authority and legal right to enter into and perform the terms and conditions of the Purchase Agreement to be performed by it, that the representations and warranties of each such party as set forth in the Purchase Agreement when made were, and on the date hereof are, true and complete, and that the Purchase Agreement constitutes a legal, valid and binding obligation of each such party (other than the Company), enforceable against it in accordance with their respective terms.

Based upon the foregoing and subject to the qualifications, assumptions and limitations contained herein, we are of the opinion that the Common Stock has been duly authorized by the Company and, when issued by the Company in the manner contemplated by the Prospectus and the Purchase Agreement, as applicable, will be validly issued, fully paid and non-assessable.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the reference made to this firm under the caption “Legal Matters” in the Prospectus constituting a part of the Registration Statement. In giving such consent, we do not thereby concede that this firm is within the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Securities and Exchange Commission.

This opinion letter is limited to the matters set forth herein, and no opinion may be inferred or implied beyond the matters expressly set forth herein. This opinion letter is not a guaranty nor may one be inferred or implied. This opinion letter speaks as of the date hereof and we assume no obligation to update or supplement this opinion letter to reflect any facts or circumstances that may hereafter come to our attention or any changes in fact or law that may hereafter occur.

Very truly yours,

/s/ Olshan Frome Wolosky LLP
OLSHAN FROME WOLOSKY LLP

Subsidiaries of the Registrant

The following is the sole subsidiary of the Company as of June 3, 2024:

Lithium Biotech, Inc., a Nevada corporation.

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in this Registration Statement and Prospectus on Form S-1 of Alzamend Neuro, Inc. of our report dated July 27, 2023 (which includes an explanatory paragraph relating to the Company's ability to continue as a going concern), relating to the financial statements of Alzamend Neuro, Inc., as of and for the year ended April 30, 2023.

We also consent to the reference to our firm under the heading "Experts" in such Registration Statement and Prospectus.

/s/ Baker Tilly US, LLP

San Diego, California
June 3, 2024

Calculation of Filing Fee Tables

Form S-1
(Form Type)

Alzamend Neuro, 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 (1)	Proposed Maximum Offering Price Per Share	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee	Carry Forward Form Type	Carry Forward File Number	Carry Forward Initial effective date	Filing Fee Previously Paid In Connection with Unsold Securities to be Carried Forward
Newly Registered Securities												
Fees to Be Paid	Equity	Common Stock	Rule 457(c)	125,000,000 (2)	\$0.5826 (3)	\$72,825,000 (3)	\$0.00014760	\$10,748.97	-	-	-	-
Fees Previously Paid	-	-	-	-	-	-	-	-	-	-	-	-
Carry Forward Securities												
Carry Forward Securities	-	-	-	-	-	-	-	-	-	-	-	-
Total Offering Amounts						\$72,825,000 (3)		\$10,748.97				
Total Fees Previously Paid								\$0				
Total Fee Offsets								\$0				
Net Fee Due								\$10,748.97				

- (1) Pursuant to Rule 416(a) promulgated under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of common stock that become issuable pursuant to that certain purchase agreement by and between Alzamend Neuro, Inc. and Orchid Finance LLC dated as of May 8, 2024 (the "Purchase Agreement"), as amended by reason of any stock dividend, stock split, recapitalization, or other similar transaction effected that results in an increase to the number of outstanding shares of the common stock, as applicable.
- (2) Represents 105,000,000 shares of the Company's common stock issuable upon the conversion of the Series A Convertible Preferred Stock of the Company and 20,000,000 shares of the Company's common stock issuable upon the exercise of the warrants to be sold by the Company to the selling stockholder pursuant to the Purchase Agreement.
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) under the Securities Act, based upon the average of the high and low prices of the common stock, as reported on The Nasdaq Capital Market on May 29, 2024, which date is within five business days prior to the filing of this registration statement.