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

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

Ventyx Biosciences, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

88-2996852
(I.R.S. Employer
Identification Number)

**12790 El Camino Real, Suite 200
San Diego, CA 92130
(760) 593-4832**
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Raju Mohan, Ph.D.
Chief Executive Officer
**12790 El Camino Real, Suite 200
San Diego, CA 92130
(760) 593-4832**
(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

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Robert L. Wernli, Jr.
Wilson Sonsini Goodrich & Rosati,
Professional Corporation
12235 El Camino Real
San Diego, CA 92130-3002
(858) 350-2300**

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of the registration statement.

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

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

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

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

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

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

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

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

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

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

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

Subject to Completion, dated November 7, 2024

PROSPECTUS



Ventyx Biosciences, Inc.

7,060,100 Shares of Common Stock

This prospectus covers the offer and resale from time to time of up to 7,060,100 shares of our common stock, par value \$0.0001 per share, issuable upon conversion of 70,601 shares of Series A Non-Voting Convertible Preferred Stock (“Series A Preferred Stock”), by the selling stockholder identified in this prospectus, including its transferees, pledgees or donees or its respective successors. The shares of Series A Preferred Stock were sold and issued to the selling stockholder in a private placement on September 23, 2024.

The selling stockholder identified in this prospectus may offer the shares of common stock pursuant to this prospectus from time to time through public or private transactions at fixed prices, at market prices prevailing at the time of sale, at prices related to prevailing market prices or at privately negotiated prices. The selling stockholder may sell shares to or through underwriters, broker-dealers or agents, who may receive compensation in the form of discounts, concessions or commissions from the selling stockholder, the purchasers of the shares, or both. For additional information on the methods of sale that may be used by the selling stockholder, see the section entitled “Plan of Distribution” on page 11.

We are not selling any shares of common stock under this prospectus and will not receive any proceeds from the sale by the selling stockholder of such shares. We are paying the cost of registering the shares of common stock covered by this prospectus as well as various related expenses. The selling stockholder is responsible for all selling commissions, transfer taxes and other costs related to the offer and sale of its shares.

You should carefully read this prospectus and any amendments or supplements accompanying this prospectus, together with any documents incorporated by reference herein or therein, before you make your investment decision.

The selling stockholder may sell any, all or none of the securities offered by this prospectus and we do not know when or in what amount the selling stockholder may sell its common shares hereunder following the effective date of the registration statement of which this prospectus forms a part.

Our common stock is currently listed on The Nasdaq Global Select Market under the symbol “VTYX.” On November 4, 2024, the last reported sale price of our common stock was \$2.15 per share.

Investing in our securities involves risks. Please carefully read the information under the headings “[Risk Factors](#)” beginning on page 4 of this prospectus and “Item 1A – Risk Factors” of our most recent report on Form 10-K or 10-Q that is incorporated by reference in this prospectus before you invest in our securities.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2024.

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ABOUT THIS PROSPECTUS

We urge you to read carefully this prospectus, together with the information incorporated herein by reference as described under the heading “Where You Can Find More Information,” before buying any of the securities being offered.

You should rely only on the information contained or incorporated by reference in this prospectus. The selling stockholder has not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus may only be used where it is legal to offer and sell shares of our common stock. If it is against the law in any jurisdiction to make an offer to sell these shares, or to solicit an offer from someone to buy these shares, then this prospectus does not apply to any person in that jurisdiction, and no offer or solicitation is made by this prospectus to any such person. You should assume that the information appearing in this prospectus is accurate only as of the date on the front cover of this prospectus, regardless of the time of delivery of this prospectus or of any sale of common stock. Our business, financial condition, results of operations and prospects may have changed since such date. Information contained on our website is not a part of this prospectus.

Neither we nor the selling stockholder have authorized any person to provide you any information or to make any representations other than those contained in this prospectus or any applicable prospectus supplement or any free writing prospectuses prepared by or on behalf of us or to which we have referred you. Neither we nor the selling stockholder take responsibility for, and can provide assurance as to the reliability of, any other information that others may give you. Neither we nor the selling stockholder are making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted.

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission (the “SEC”) using the “shelf” registration process. Under this shelf registration process, the selling stockholder hereunder may, from time to time, issue, offer and sell, as applicable, the common stock described in this prospectus in one or more offerings. The selling stockholder may use this prospectus to sell up to an aggregate of 7,060,100 shares of common stock from time to time through any means described in the section entitled “Plan of Distribution.” We will not receive any proceeds from the sale by such selling stockholder of the securities offered by it described in this prospectus.

We may also provide a prospectus supplement or post-effective amendment to the registration statement to add information to, or update or change information contained in, this prospectus. Before purchasing any securities, you should read both this prospectus and any applicable prospectus supplement or post-effective amendment to the registration statement together with the additional information to which we refer you in the section of this prospectus titled “Where You Can Find More Information.”

Information contained in this prospectus concerning the market and the industry in which we compete, including our market position, general expectations of market opportunity and market size, is based on information from various third-party sources, on assumptions made by us based on such sources and our knowledge of the markets for our services and solutions. Any estimates provided herein involve numerous assumptions and limitations, and you are cautioned not to give undue weight to such information. Third-party sources generally state that the information contained in such source has been obtained from sources believed to be reliable; however, we have not verified the accuracy or completeness of third-party data. The industry in which we operate is subject to a high degree of uncertainty and risk. As a result, the estimates and market and industry information provided in this prospectus are subject to change based on various factors, including those described in the risk factors incorporated herein in the sections entitled “Risk Factors-Risks Related to Our Business” and “Risks Related to Our Common Stock” and elsewhere in this prospectus.

Prospectus Summary

This summary highlights selected information that is presented in greater detail elsewhere, or incorporated by reference, in this prospectus. It does not contain all of the information that may be important to you and your investment decision. Before investing in our securities, you should carefully read this entire prospectus, including the matters set forth in the section titled “Risk Factors” and the financial statements and related notes and other information that we incorporate by reference herein, including our Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q. Unless the context indicates otherwise, references in this prospectus to “Ventyx Biosciences, Inc.,” “we,” “our” and “us” refer, collectively, to Ventyx Biosciences, Inc., a Delaware corporation, and its subsidiaries taken as a whole.

Company Overview

We are a clinical-stage biopharmaceutical company developing a pipeline of novel small molecule product candidates to address a range of inflammatory diseases with significant unmet need. We leverage the substantial experience of our team in immunology to identify important new targets and to develop differentiated therapeutics against these targets. Our clinical product candidates address therapeutic indications with substantial commercial opportunity for novel small molecules. We are developing a portfolio of clinical-stage small molecule inhibitors of the NOD-like receptor protein 3 (NLRP3) inflammasome, including VTX3232, our CNS-penetrant NLRP3 inhibitor, and VTX2735, our peripheral NLRP3 inhibitor.

In the first quarter of 2024, we reported positive topline results from a Phase 1 trial of VTX3232 in adult healthy volunteers. In August 2024, we initiated a Phase 2a trial of VTX3232 in participants with early Parkinson’s disease. We expect to initiate a Phase 2 trial of VTX3232 in participants with obesity and certain additional risk factors for cardiovascular disease during the fourth quarter of 2024. During the first quarter of 2024, we also reported positive topline results from a Phase 2 proof of concept trial of VTX2735 in cryopyrin-associated periodic syndromes (CAPS) patients. We plan to evaluate VTX2735 for further development in cardiovascular diseases, with an initial focus on recurrent pericarditis. We expect to initiate a Phase 2 trial of VTX2735 in participants with recurrent pericarditis during the fourth quarter of 2024.

We are also developing VTX002, a sphingosine 1 phosphate receptor (S1P1R) modulator for the treatment of moderately to severely active ulcerative colitis (UC). In the fourth quarter of 2023, we announced positive results from the Phase 2 trial of VTX002 in patients with moderately to severely active ulcerative colitis. We intend to identify a partner or other source of non-dilutive financing to support a pivotal Phase 3 trial of VTX002 in ulcerative colitis.

In the third quarter of 2024, we announced results from a Phase 2 trial of VTX958, an allosteric TYK2 inhibitor, in participants with moderately to severely active Crohn’s disease. The study did not meet its primary endpoint of change from baseline in mean CDAI score in either VTX958 dose group. VTX958 did demonstrate dose-dependent, nominally statistically significant endoscopic response rates at Week 12 as measured by SESCD (an objective endpoint) and showed a greater magnitude of decrease compared to placebo in two key biomarkers of inflammation, C-reactive protein and fecal calprotectin. Based on these results, we are continuing the analysis of the Phase 2 data; however, we do not anticipate committing significant internal resources to further development of VTX958.

Corporate Information

We were incorporated in Delaware on November 21, 2018. Until February 2021, we focused primarily on developing our product candidate, VTX958, which we acquired from Vimalan Biosciences. In February 2021, we acquired all of the issued and outstanding equity of each of Oppilan Pharma Ltd. (“Oppilan”), including its lead candidate VTX002, and Zomagen Biosciences Ltd. (“Zomagen”), including its lead candidate VTX2735, and

following such acquisitions, each of Oppilan and Zomagen became our wholly owned subsidiaries. Although we acquired these product candidates, each candidate was developed by one or more members of our management team. Our principal executive offices are located at 12790 El Camino Real, Suite 200, San Diego, CA 92130. Our telephone number is (760) 593-4832. Our website address is <http://www.ventyxbio.com>. Information contained on, or that can be accessed through, the website is not incorporated by reference into this prospectus and the inclusion of our website address in this prospectus is an inactive textual reference only.

We use Ventyx, the Ventyx logo and other marks as trademarks in the United States and other countries. This prospectus contains references to our trademarks and service marks and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this prospectus, including logos, artwork and other visual displays, may appear without the ® or ™ symbols, but such references are not intended to indicate in any way that we will not assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensor to these trademarks and trade names. We do not intend our use or display of other entities' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

Private Placement and Securities Purchase Agreement

On September 23, 2024, we entered into a securities purchase agreement with Aventis Inc. (“Aventis”), the selling stockholder named in this prospectus, pursuant to which we sold to Aventis 70,601 shares of Series A Non-Voting Convertible Preferred Stock, par value \$0.0001 per share (the “Series A Preferred Stock”), which are convertible into shares of common stock, par value \$0.0001 per, at a purchase price of \$3.8243 per share (on an as-converted to common stock basis) for gross proceeds of approximately \$27.0 million, in a private placement. The Series A Preferred Stock is convertible at the option of the holder of such Series A Preferred Stock at any time into 100 shares of common stock for each share of Series A Preferred Stock, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization. The Series A Preferred Stock will not be convertible by a holder to the extent that such holder or any of its affiliates would beneficially own in excess of 4.99% (the “Maximum Percentage”) of the common stock outstanding immediately after giving effect to such conversion. A holder may increase or decrease the Maximum Percentage to any other percentage (not in excess of 19.99% of the issued and outstanding common stock immediately after giving effect to the issuance of the common stock issuable upon conversion of the Series A Preferred Stock) by delivering a written notice to us, provided that (i) any such increase in the Maximum Percentage will not be effective until the 61st day after such notice is delivered to us and (ii) any such increase or decrease does not apply to any other holder of Series A Preferred Stock or the validity of any prior conversion of the Series A Preferred Stock.

In connection with the private placement and pursuant to the securities purchase agreement, we granted Aventis certain registration rights for the resale of the shares of common stock issuable upon conversion of the Series A Preferred Stock. We agreed to file a registration statement registering such shares with the SEC no later than November 7, 2024 (45 days after the closing of the private placement). We agreed to keep the registration statement continuously effective from the date on which the SEC declares the registration statement effective until the earlier of (a) the date as of which the registrable shares (as defined in the securities purchase agreement) have been sold pursuant to the registration statement and (b) the date as of which no registrable shares remain outstanding.

Additionally, pursuant to the securities purchase agreement, we granted Aventis a right of first negotiation for a license, grant or transfer, including by option or sale, of any rights to research, develop, commercialize, or otherwise exploit VTX3232, our CNS-penetrant NLRP3 inhibitor.

THE OFFERING

Shares offered by selling stockholder	Up to 7,060,100 shares of common stock issuable upon the conversion of 70,601 shares of Series A Preferred Stock.
Offering Price	The selling stockholder may sell all or a portion of the shares of common stock issuable upon the conversion of shares of Series A Preferred Stock through public or private transactions at prevailing market prices or at privately negotiated prices.
Use of proceeds	We will not receive any proceeds from the sale of shares of common stock by the selling stockholder.
Risk factors	See the section titled “Risk Factors” included in, and the risk factors incorporated by reference in this prospectus, for a discussion of factors you should carefully consider before deciding to invest in shares of our common stock.
Nasdaq trading symbol	“VTYX”

The selling stockholder named in this prospectus may offer and sell up to 7,060,100 shares of our common stock. Throughout this prospectus, when we refer to the shares of our common stock being registered on behalf of the selling stockholder for offer and resale, we are referring to the shares of common stock issuable to the selling stockholder upon conversion of the Series A Preferred Stock issued in the private placement as described above. When we refer to the selling stockholder in this prospectus, we are referring to the selling stockholder identified in this prospectus and, as applicable, its permitted transferees or other successors-in-interest that may be identified in a supplement to this prospectus or, if required, a post-effective amendment to the registration statement of which this prospectus is a part.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, and the risk factors set forth under “Risk Factors” in our Annual Report on Form 10-K and subsequently filed Quarterly Reports on Form 10-Q, which are incorporated by reference in this prospectus, together with all other information included or incorporated by reference in this prospectus, as updated by our subsequent filings under the Securities and Exchange Act of 1934 (the “Exchange Act”), and the risk factors and other information contained in any applicable prospectus supplement, before making an investment decision. The risks and uncertainties described below may not be the only ones we face. If any of the risks actually occur, our business, financial condition, operating results, cash flows and prospects could be materially and adversely affected. In that event, the market price of our common stock could decline, and you could lose part or all of your investment.

Risks Related to This Offering.

The number of shares of common stock being registered for sale upon conversion of the shares of Series A Preferred Stock is significant in relation to the number of outstanding shares of our common stock.

We have filed a registration statement of which this prospectus is a part to register the shares offered hereunder for sale into the public market by the selling stockholder. Upon effectiveness of the registration statement, 7,060,100 shares of the common stock registered hereunder may be resold in the public market immediately without restriction. These shares represent a large number of shares of our common stock and, if sold in the market all at once or at about the same time, could depress the market price of our common stock during the period the registration statement remains effective and could also affect our ability to raise equity capital.

FORWARD-LOOKING STATEMENTS

This prospectus, any applicable prospectus supplement or free writing prospectus and our SEC filings that are incorporated by reference into this prospectus and any applicable prospectus supplement or free writing prospectus may contain or incorporate by reference forward-looking statements within the meaning of U.S. federal securities laws, including Section 27A of the Securities Act, Section 21E of the Exchange Act and the Private Securities Litigation Reform Act of 1995, and such statements are subject to the “safe harbor” created by those sections. Such forward-looking statements include, but are not limited to, statements regarding management’s beliefs regarding our current and planned clinical trials and the potential timing and nature of any sales of securities by the selling stockholder pursuant to this registration statement. In some cases, you can identify forward-looking statements by the following words: “anticipate,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “ongoing,” “plan,” “potential,” “predict,” “project,” “should,” “will,” “would” or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words.

These forward-looking statements involve risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. Although we believe that we have a reasonable basis for each forward-looking statement contained in this prospectus, we caution you that these statements are based on a combination of facts and factors currently known by us and our projections of the future, about which we cannot be certain. Forward-looking statements contained or incorporated by reference in this prospectus include, but are not limited to, statements about:

- our expectations regarding our product candidates and their related benefits;
- the timing or likelihood of regulatory filings or other actions and related regulatory authority responses;
- our beliefs regarding the perceived benefits and limitations of competing products, and the future of competing products and our industry;
- details regarding our strategic vision and product candidate pipeline;
- our beliefs regarding the success, cost and timing of our development activities and current and future clinical trials, including study design;
- the anticipated timing of releasing data for any current or future clinical trials;
- the anticipated timing of commencement, enrollment, and completion of any current or future clinical trials for our product candidates;
- disruptions in the supply chain, including raw materials needed for manufacturing, animals used in research, delays in site activations and enrollment of clinical trials;
- any impact of the military conflicts in Ukraine or the Middle East or the imposition of sanctions against certain countries as a result thereof;
- the ability and willingness of third parties to engage in research and development activities on our behalf involving our product candidates, and our ability to leverage those activities;
- our expectations regarding the ease of administration associated with our product candidates;
- our expectations regarding the patient compatibility associated with our product candidates;
- our beliefs regarding the potential markets for our product candidates and our ability to serve those markets;
- the ability to obtain and maintain regulatory approval of any of our product candidates, and any related restrictions, limitations and/or warnings in the label of any approved product candidate;

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- our ability to commercialize any approved products;
- the rate and degree of market acceptance of approved products, if any;
- our ability to attract and retain key personnel;
- the accuracy of our estimates regarding our future revenue, operating expenses, capital requirements and needs for additional financing;
- our ability to obtain funding for our operations, including funding necessary to complete further development and any commercialization of our product candidates;
- our ability to obtain, maintain, protect and enforce intellectual property protection for our product candidates and not infringe, misappropriate or otherwise violate the intellectual property of others; and
- regulatory developments in the United States and foreign countries.

The foregoing list of factors is not exhaustive. You should carefully consider the foregoing factors and the other risks and uncertainties that affect our business described in the “Risk Factors” section, our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and other documents filed by us from time to time with the SEC. See “Where You Can Find More Information” beginning on page 13 of this prospectus.

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

Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

USE OF PROCEEDS

All of the shares of common stock offered by the selling stockholder pursuant to this prospectus will be sold by the selling stockholder for its respective account. We will not receive any of the proceeds from these sales.

The selling stockholder will pay any underwriting discounts and commissions and expenses incurred by them for brokerage, accounting, tax or legal services or any other expenses incurred in disposing of the securities. We will bear the costs, fees and expenses incurred in effecting the registration of the shares covered by this prospectus, including all registration and filing fees, Nasdaq listing fees and fees and expenses of our counsel and our independent registered public accounting firm.

SELLING STOCKHOLDER

This prospectus covers the offer and resale or other disposition of shares of our common stock by the selling stockholder named below, and its donees, pledgees, transferees or other successors-in-interest, or interests in shares of such shares received after the date of this prospectus from the selling stockholder as a gift, pledge, partnership distribution or other transfer. The shares of common stock being offered by the selling stockholder are those shares of common stock issuable upon conversion of the Series A Preferred Stock previously issued to the selling stockholder. See “Prospectus Summary— Private Placement and Stock Purchase Agreement” for additional information regarding the issuance of the Series A Preferred Stock and the shares of common stock issuable upon conversion thereof.

The table below sets forth, to our knowledge, information concerning the beneficial ownership of shares of our common stock by the selling stockholder as of September 23, 2024. The information in the table below with respect to the selling stockholder has been obtained from the selling stockholder. The selling stockholder may sell all, some or none of the shares of common stock subject to this prospectus. See “Plan of Distribution” as may be supplemented and amended from time to time. We do not know how long the selling stockholder will hold the shares before selling them, and we currently have no agreements, arrangements or understandings with the selling stockholder regarding the sale or other disposition of any of the shares.

The number of shares of common stock beneficially owned prior to the offering for the selling stockholder includes (i) all shares of our common stock beneficially held by such selling stockholder as of November 4, 2024, (ii) the number of shares of our common stock that may be offered under this prospectus, and (iii) the number and percentage of our common stock beneficially owned by the selling stockholder assuming all of the shares of our common stock registered hereunder are sold. The table below and footnotes assume that the selling stockholder will sell all of the shares listed. However, because the selling stockholder may sell all or some of the shares of common stock held or issuable to it under this prospectus from time to time, or in another permitted manner, we cannot assure you as to the actual number of shares of common stock that will be sold by the selling stockholder or that will be held by the selling stockholder after completion of any sales. The percentages of shares of common stock owned after the offering are based on 70,710,667 shares of common stock outstanding as of November 4, 2024, which includes the shares of common stock issuable upon conversion of the Series A Preferred Stock previously issued to the selling stockholder.

Beneficial ownership is determined in accordance with the rules of the SEC and includes voting or investment power with respect to our common stock. Generally, a person “beneficially owns” shares of our common stock if the person has or shares with others the right to vote those shares or to dispose of them, or if the person has the right to acquire voting or disposition rights within 60 days. The inclusion of any shares in this table does not constitute an admission of beneficial ownership for any selling stockholder named below.

Information about the selling stockholder may change over time. Any changed information will be set forth in an amendment to the registration statement or supplement to this prospectus, to the extent required by law.

<u>Name of Selling Stockholder</u>	<u>Shares of Common Stock Beneficially Owned Prior to Offering⁽¹⁾</u>		<u>Shares of Common Stock Being Offered⁽²⁾</u>	<u>Shares of Common Stock to be Beneficially Owned After Offering⁽³⁾</u>	
	<u>Number</u>	<u>Percentage</u>	<u>Number</u>	<u>Number</u>	<u>Percentage</u>
Aventis Inc. (4)	3,713,779	4.99%	7,060,100	—	—

- (1) The selling stockholder and its related entities own 70,601 shares of Series A Preferred Stock convertible into up 7,060,100 shares of common stock. The shares of Series A Preferred Stock are subject to terms that limit conversion, if, after such conversion, the holder and its affiliates would beneficially own more than 4.99% of the number of shares of common stock then issued and outstanding (which such percentage may be increased or decreased by the holder up, upon 61 days’ written notice, to a maximum of 19.99%). As a

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result of the limitation in the previous sentence, for purposes of the column entitled “Shares of Common Stock Beneficially Owned Prior to Offering” in the table above, only 3,713,779 shares of common stock issuable upon the conversion of shares of Series A Preferred Stock beneficially owned by the selling stockholder are reflected.

- (2) The number of shares of our common stock in the column “Number of Shares of Common Stock Being Offered” represents the shares of our common stock issuable upon conversion of the Series A Preferred Stock, which the selling stockholder may at any time choose to convert into shares of our common stock and thereafter offer and sell from time to time under this prospectus.
- (3) We do not know when or in what amounts the selling stockholder may offer shares for sale. The selling stockholder might not sell any or might sell all of the shares offered by this prospectus. Because the selling stockholder may offer all or some of the shares pursuant to this offering, and because, except as set forth elsewhere in this prospectus, there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares, we cannot estimate the number of the shares that will be held by the selling stockholder after completion of the offering. However, for purposes of this table, we have assumed that, after completion of the offering, none of the shares covered by this prospectus will be held by the selling stockholder.
- (4) Consists of 3,713,779 shares of common stock issuable upon conversion of Series A Preferred Stock owned by Aventis Inc., a company organized and existing under the laws of Pennsylvania. Aventis Inc. is a wholly owned subsidiary of Sanofi S.A., a French société anonyme (limited liability company), which may be deemed to have voting and dispositive power over the securities held by Aventis Inc. The address of Aventis Inc. is c/o Sanofi – Global Alliance Management, 450 Water Street, Cambridge, MA 02141.

DESCRIPTION OF CAPITAL STOCK

The description of our common stock filed as Exhibit [4.3](#) to our Annual Report on Form 10-K for the fiscal year ended December 31, 2023, filed with the SEC on [February 27, 2024](#) is incorporated herein by reference.

The description of our Series A Preferred Stock set forth in Item 5.03 of our Current Report on Form 8-K filed with the SEC on September 23, 2024 is incorporated herein by reference.

PLAN OF DISTRIBUTION

The selling stockholder, which as used herein includes donees, pledgees, transferees or other successors-in-interest selling shares of common stock or interests in shares of common stock received after the date of this prospectus from a selling stockholder, may, from time to time, sell, transfer, or otherwise dispose of any or all of their any or all of its shares of common stock or interests in shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These dispositions may be at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices.

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

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent, but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- short sales effected after the date the registration statement of which this prospectus is a part is declared effective by the SEC;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- broker-dealers may agree with the selling stockholder to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted by applicable law.

The selling stockholder may, from time to time, pledge or grant a security interest in some or all of the shares of common stock owned by them and, if they default in the performance of its secured obligations, the pledgees or secured parties may offer and sell the shares of common stock, from time to time, under this prospectus, or under an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act of 1933, as amended (the "Securities Act"), amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under this prospectus. The selling stockholder also may transfer the shares of common stock in other circumstances, in which case the transferees, pledgees or other successors-in-interest will be the selling stockholder for purposes of this prospectus.

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

Broker-dealers engaged by the selling stockholder may arrange for other broker-dealers to participate in sales. Broker-dealers may receive commissions in the form of discounts, concessions or commissions from the

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selling stockholder or commissions from purchasers of the shares of common stock for whom they may act as agent or to whom they may sell as principal. Such commissions will be in amounts to be negotiated, but, except as set forth in a further prospectus supplement or an amendment to this prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with FINRA Rule 2121; and in the case of a principal transaction, a markup or markdown in compliance with FINRA Rule 2121.01

The aggregate proceeds to the selling stockholder from the sale of the common stock offered by them will be the purchase price of the common stock less discounts or commissions, if any. The selling stockholder reserves the right to accept and, together with its agents from time to time, to reject, in whole or in part, any proposed purchase of common stock to be made directly or through agents. We will not receive any of the proceeds from this offering.

The selling stockholder also may resell all or a portion of the shares of common stock in open market transactions in reliance upon Rule 144 under the Securities Act, provided that they meet the criteria and conform to the requirements of that rule, or another available exemption from the registration requirements of the Securities Act.

The selling stockholder and any underwriters, broker-dealers or agents that participate in the sale of the common stock or interests therein may be “underwriters” within the meaning of Section 2(a)(11) of the Securities Act. Any discounts, commissions, concessions or profit they earn on any resale of the shares may be underwriting discounts and commissions under the Securities Act. Selling stockholder who are “underwriters” within the meaning of Section 2(a)(11) of the Securities Act will be subject to the prospectus delivery requirements of the Securities Act.

To the extent required, the shares of our common stock to be sold, the names of the selling stockholder, the respective purchase prices and public offering prices, the names of any agents, dealer or underwriter, and any applicable commissions or discounts with respect to a particular offer will be set forth in an accompanying prospectus supplement or, if appropriate, a post-effective amendment to the registration statement that includes this prospectus.

In order to comply with the securities laws of some states, if applicable, the common stock may be sold in these jurisdictions only through registered or licensed brokers or dealers. In addition, in some states the common stock may not be sold unless it has been registered or qualified for sale or an exemption from registration or qualification requirements is available and is complied with.

We have agreed to indemnify the selling stockholder against certain liabilities, including liabilities under the Securities Act and state securities laws, relating to the registration of the shares offered by this prospectus.

We have agreed with the selling stockholder to use commercially reasonable efforts to cause the registration statement of which this prospectus constitutes a part to become effective and to remain continuously effective until the earlier of (1) such time as all of the shares covered by this prospectus have been disposed of pursuant to and in accordance with such registration statement or (2) the date that all the shares covered by this prospectus cease to be “Registrable Shares” as defined in the securities purchase agreement.

LEGAL MATTERS

The validity of the shares of the common stock offered in this prospectus will be passed upon for us by Wilson Sonsini Goodrich & Rosati, Professional Corporation, San Diego, California. Certain members of, and investment partnerships comprised of members of, and person associated with, Wilson Sonsini Goodrich & Rosati, Professional Corporation, directly or indirectly own less than 0.1% of the outstanding shares of our common stock.

EXPERTS

The consolidated financial statements of Ventyx Biosciences, Inc. appearing in Ventyx Biosciences, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2023, and the effectiveness of Ventyx Biosciences, Inc.'s internal control over financial reporting as of December 31, 2023 have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such reports given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at <http://www.sec.gov>.

We make available, free of charge, through our investor relations website, our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, statements of changes in beneficial ownership of securities and amendments to those reports and statements as soon as reasonably practicable after they are filed with the SEC. The address for our website is <http://www.ventyxbio.com>. The contents on our website are not part of this prospectus, and the reference to our website does not constitute incorporation by reference into this prospectus of the information contained at that site.

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

INCORPORATION BY REFERENCE

The SEC allows us to "incorporate by reference" into this prospectus the information we file with the SEC. This means that we can disclose important information to you by referring you to those documents. Any statement contained in a document incorporated by reference in this prospectus shall be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained herein, or in any subsequently filed document, which also is incorporated by reference herein, modifies or supersedes such earlier statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

We hereby incorporate by reference into this prospectus the following documents that we have filed with the SEC under the Securities Act and under the Exchange Act (other than current reports on Form 8-K, or portions thereof, furnished under Items 2.02 or 7.01 of Form 8-K):

- our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on [February 27, 2024](#);

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- our Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2024, June 30, 2024 and September 30, 2024, filed with the SEC on [May 9, 2024](#), [August 8, 2024](#) and [November 7, 2024](#).
- the sections of our definitive proxy statement on Schedule 14A for the 2024 Annual Meeting of Stockholders, filed with the SEC on [April 25, 2024](#), that are incorporated by reference in our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on [February 27, 2024](#);
- our Current Reports on Form 8-K filed with the SEC on [March 7, 2024](#), [March 11, 2024](#), [April 5, 2024](#), [May 16, 2024](#), [June 5, 2024](#), [June 6, 2024](#), [August 30, 2024](#), and [September 23, 2024](#); and
- the description of our common stock contained in [Exhibit 4.3](#) to our Annual Report on Form 10-K filed with the SEC on March 24, 2022, including any amendment or report updating such description.

All documents that we file with the SEC pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than current reports on Form 8-K, or portions thereof, furnished under Items 2.02 or 7.01 of Form 8-K) (i) after the initial filing date of the registration statement of which this prospectus forms a part and prior to the effectiveness of such registration statement and (ii) after the date of this prospectus and prior to the termination of the offering shall be deemed to be incorporated by reference in this prospectus from the date of filing of the documents, unless we specifically provide otherwise. Information that we file with the SEC will automatically update and may replace information previously filed with the SEC. To the extent that any information contained in any current report on Form 8-K or any exhibit thereto, was or is furnished to, rather than filed with the SEC, such information or exhibit is specifically not incorporated by reference.

Upon written or oral request made to us at the address or telephone number below, we will, at no cost to the requester, provide to each person, including any beneficial owner, to whom this prospectus is delivered, a copy of any or all of the information that has been incorporated by reference in this prospectus (other than an exhibit to a filing, unless that exhibit is specifically incorporated by reference into that filing), but not delivered with this prospectus. You may also access this information on our website at <https://www.ventyxbio.com> by viewing the “SEC Filings” subsection of the “Investors & News” menu. No additional information on our website is deemed to be part of or incorporated by reference into this prospectus. We have included our website address in this prospectus solely as an inactive textual reference.

Ventyx Biosciences, Inc.
12790 El Camino Real, Suite 200
San Diego, CA 92130
Attn: Investor Relations
(760) 593-4832

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

The following table sets forth the expenses incurred or expected to be incurred in connection with the offering described in this registration statement and the private placement, other than placement agent fees, all of which will be paid by us. All amounts are estimates except the Securities and Exchange Commission's registration fee.

	Amount to be Paid
SEC registration fee for securities offered by the selling stockholder identified in the prospectus	\$ 2,324
Accounting fees and expenses	25,000
Legal fees and expenses	\$ 250,000
Miscellaneous expenses	\$ 30,000
Total	<u>\$ 307,324</u>

Item 15. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law authorizes a corporation's board of directors to grant, and authorizes a court to award, indemnity to officers, directors and other corporate agents.

Our certificate of incorporation contains provisions that limit the liability of our directors and certain of our officers for monetary damages to the fullest extent permitted by the Delaware General Corporation Law. Consequently, our directors will not be personally liable to us or our stockholders for monetary damages for any breach of fiduciary duties as directors, except liability for the following:

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

Similarly, our officers who at the time of an act or omission as to which liability is asserted consented to or are deemed to have consented to certain service of process rules under Delaware law will not be personally liable to us or our stockholders for monetary damages for any breach of fiduciary duties as officers, except for liability in connection with:

- any breach of their duty of loyalty to us or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- any transaction from which they derived an improper personal benefit; or
- any action by or in the right of the corporation.

Any amendment, repeal or elimination of these provisions will not eliminate or reduce the effect of these provisions in respect of any act, omission or claim that occurred or arose prior to that amendment, repeal or elimination. If the Delaware General Corporation Law is amended to provide for further limitations on the

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personal liability of directors or officers of corporations, then the personal liability of our directors and officers will be further limited to the greatest extent permitted by the Delaware General Corporation Law.

In addition, our bylaws provide that we will indemnify our directors and officers, and may indemnify our employees, agents and any other persons, to the fullest extent permitted by the Delaware General Corporation Law. Our bylaws also provide that we must advance expenses incurred by or on behalf of a director or officer in advance of the final disposition of any action or proceeding, subject to limited exceptions.

Further, we have entered into indemnification agreements with each of our directors and executive officers that may be broader than the specific indemnification provisions contained in the Delaware General Corporation Law. These indemnification agreements require us to, among other things, indemnify our directors and executive officers against liabilities that may arise by reason of their status or service. These indemnification agreements also generally require us to advance all expenses reasonably and actually incurred by our directors and executive officers in investigating or defending any such action, suit or proceeding. We believe that these agreements are necessary to attract and retain qualified individuals to serve as directors and executive officers.

The limitation of liability and indemnification provisions in our certificate of incorporation, bylaws and indemnification agreements may discourage stockholders from bringing a lawsuit against our directors and officers for breach of their fiduciary duties. They may also reduce the likelihood of derivative litigation against our directors and officers, even though an action, if successful, might benefit us and other stockholders. Further, a stockholder's investment may be adversely affected to the extent that we pay the costs of settlement and damage awards against our directors and officers as required by these indemnification provisions.

We have obtained insurance policies under which, subject to the limitations of the policies, coverage is provided to our directors and officers against loss arising from claims made by reason of breach of fiduciary duty or other wrongful acts as a director or officer, including claims relating to public securities matters, and to us with respect to payments that may be made by us to our directors and officers pursuant to our indemnification obligations or otherwise as a matter of law.

Certain of our non-employee directors may, through their relationships with their employers, be insured or indemnified against certain liabilities incurred in their capacity as members of our board of directors.

Item 16. Exhibits

Exhibit Number	Exhibit Description	Incorporation by Reference			Filed Herewith
		Form	File Number	Exhibit Number	
3.1	Amended and Restated Certificate of Incorporation, as amended June 9, 2023	10-Q	001-40928	3.1	8/10/2023
3.2	Amended and Restated Bylaws	8-K	001-40928	3.1	12/12/2022
3.3	Certificate of Designations of Preferences, Rights and Limitations of Series A Non-Voting Convertible Preferred Stock	8-K	001-40928	3.1	9/23/2024
4.1	Specimen Common Stock Certificate	S-1	333-259891	4.2	10/15/2021
4.2	Refence is made to Exhibit 3.3.	8-K	001-40928	3.1	9/23/2024
4.3	Securities Purchase Agreement, dated September 23, 2024, by and between the Company and Aventis Inc.	8-K	001-40928	10.1	9/23/2024
5.1	Opinion of Wilson Sonsini Goodrich & Rosati, Professional Corporation				X

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Exhibit Number	Exhibit Description	Incorporation by Reference			Filed Herewith
		Form	File Number	Exhibit Number	
23.1	Consent of Independent Registered Public Accounting Firm				X
23.2	Consent of Wilson Sonsini Goodrich & Rosati, Professional Corporation (included in the opinion filed as Exhibit 5.1 to this Registration Statement)				X
24.1	Power of Attorney (included on the signature page to this Registration Statement)				X
107	Filing Fee Table				X

Item 17. Undertakings

(a) The undersigned registrant hereby undertakes:

(1) to file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) to include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) to reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Filing Fee Tables" or "Calculation of Registration Fee" table, as applicable, in 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), (a)(1)(ii) and (a)(1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the 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, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) that, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) to remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) that, for the purpose of determining liability under the Securities Act to any purchaser:

(i) each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

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(ii) each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(5) that, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) the portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(6) that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(b) 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 Commission 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.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, California, on November 7, 2024.

VENTYX BIOSCIENCES, INC.

By: /s/ Raju Mohan, Ph.D.

Raju Mohan, Ph.D.
Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Raju Mohan, Ph.D. and Roy M. Gonzales, and each of them, 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 any and all amendments to this registration statement, including post-effective amendments, and registration statements filed pursuant to Rule 462 under the Securities Act, and to file the same, with all exhibits thereto, and all other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent 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 and about the premises, as fully for all intents and purposes as they, he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent or any of them, or their, his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

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

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Raju Mohan, Ph.D.</u> Raju Mohan, Ph.D.	Chief Executive Officer and Director (Principal Executive Officer)	November 7, 2024
<u>/s/ Roy M. Gonzales</u> Roy M. Gonzales	Senior Vice President of Finance (Interim Principal Financial Officer and Principal Accounting Officer)	November 7, 2024
<u>/s/ Sheila Gujrathi, M.D.</u> Sheila Gujrathi, M.D.	Executive Chairperson and Director	November 7, 2024
<u>/s/ Onaiza Cadoret-Manier, M.B.A.</u> Onaiza Cadoret-Manier, M.B.A.	Director	November 7, 2024
<u>/s/ Allison J. Hulme, Ph.D.</u> Allison J. Hulme, Ph.D.	Director	November 7, 2024
<u>/s/ Somasundaram Subramaniam, M.B.A.</u> Somasundaram Subramaniam, M.B.A.	Director	November 7, 2024
<u>/s/ William White, J.D., M.P.P.</u> William White, J.D., M.P.P.	Director	November 7, 2024



Wilson Sonsini Goodrich & Rosati
Professional Corporation
12235 El Camino Real
San Diego, California 92130-3002
O: 858.350.2300
F: 866.974.7329

November 7, 2024

Ventyx Biosciences, Inc.
12790 El Camino Real, Suite 200
San Diego, California

Re: Registration Statement on Form S-3

Ladies and Gentlemen:

This opinion is furnished to you in connection with the Registration Statement on Form S-3 (the "Registration Statement"), filed by Ventyx Biosciences, Inc. (the "Company") with the Securities and Exchange Commission (the "Commission") on the date hereof in connection with the registration under the Securities Act of 1933, as amended (the "Securities Act"), of the offer and resale of 7,060,100 shares (the "Shares") of the Company's common stock, \$0.0001 par value per share, issuable upon conversion of 70,601 shares of Series A Non-Voting Convertible Preferred Stock ("Series A Preferred Stock").

We are acting as counsel for the Company in connection with the registration of the Shares for offer and resale. As such counsel, we have made such legal and factual examinations and inquiries as we have deemed necessary or advisable for the purpose of rendering the opinions and statements set forth below. In rendering the opinions and statements expressed below, we have examined originals or copies, certified or otherwise identified to our satisfaction, of such documents, corporate records, certificates of public officials and other instruments as we have deemed necessary for the purposes of rendering this opinion.

In addition, we have reviewed originals or copies of such corporate records of the Company, certificates of public officials, a certificate of an officer of the Company as to factual matters and such other documents which we consider necessary or advisable for the purpose of rendering the opinions set forth below. We have not independently established the facts stated therein.

In our examination, we have assumed the genuineness of all signatures, the authenticity and completeness of all documents submitted to us as originals, the conformity with the originals of all documents submitted to us as copies, the authenticity of the originals of such documents and the legal competence of all signatories to such documents. We have also assumed the authority of such persons signing on behalf of the parties thereto other than the Company and the due authorization, execution and delivery of all documents by the parties thereto other than the Company. We have also assumed the conformity of the documents filed with the Commission via the Electronic Data Gathering, Analysis and Retrieval System ("EDGAR"), except for required EDGAR formatting changes, to physical copies submitted for our examination and the absence of any evidence extrinsic to the provisions of the written agreements between the parties that the parties intended a meaning contrary to that expressed by those provisions.

AUSTIN BEIJING BOSTON BOULDER BRUSSELS HONG KONG LONDON LOS ANGELES NEW YORK PALO ALTO
SALT LAKE CITY SAN DIEGO SAN FRANCISCO SEATTLE SHANGHAI WASHINGTON, DC WILMINGTON, DE

On the basis of the foregoing, we are of the opinion that the Shares are duly authorized, and when issued in accordance with the terms of the Series A Preferred Stock, will be validly issued, fully paid and nonassessable. It is understood that this opinion is to be used only in connection with the offer and resale of the Shares while the Registration Statement is in effect. We assume no obligation to supplement this opinion if any applicable law changes after the date hereof or if we become aware of any fact that might change the opinion expressed herein after the date hereof. We express no opinion as to the laws of any other jurisdiction, other than the federal laws of the United States of America and the General Corporation Law of the State of Delaware.

We consent to the use of this opinion as an exhibit to the Registration Statement, and we consent to the reference of our name under the caption "Legal Matters" in the prospectus forming part of the Registration Statement.

Sincerely,

/s/ Wilson Sonsini Goodrich & Rosati

WILSON SONSINI GOODRICH & ROSATI
Professional Corporation

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption “Experts” in the Registration Statement (Form S-3) and related Prospectus of Ventyx Biosciences, Inc. for the registration of 7,060,100 shares of its common stock and to the incorporation by reference therein of our reports dated February 27, 2024, with respect to the consolidated financial statements of Ventyx Biosciences, Inc., and the effectiveness of internal control over financial reporting of Ventyx Biosciences, Inc., included in its Annual Report (Form 10-K) for the year ended December 31, 2023, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

San Diego, California
November 7, 2024

Calculation of Filing Fee Tables

Form S-3
(Form Type)Ventyx Biosciences, Inc.
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered and Carry Forward Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	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, par value \$0.0001 per share	457(c)	7,060,100 (1)	\$2.15 (2)	\$15,179,215	0.0001531	\$2,323.94	—	—	—	—
Fees Previously Paid	—	—	—	—	—	—	—	—	—	—	—	—
Carry Forward Securities												
Carry Forward Securities	—	—	—	—	—	—	—	—	—	—	—	—
	Total Offering Amounts							\$2,323.94				
	Total Fees Previously Paid							—				
	Total Fee Offsets							—				
	Net Fee Due							\$2,323.94				

- (1) Represents the shares of common stock, \$0.0001 par value per share of Ventyx Biosciences, Inc. (the “Company”) issuable upon conversion of the Series A Preferred Stock of the Company, which the selling stockholder may at any time choose to convert and offer for resale pursuant to the prospectus to which this exhibit is attached. Pursuant to Rule 416 under the Securities Act of 1933, as amended (the “Securities Act”), the registrant is also registering an indeterminate number of additional shares of common stock issuable by reason of any stock dividend, stock split, recapitalization or other similar transaction.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) of the Securities Act, and based upon the average of the high and low prices for a share of the registrant’s common stock as reported on the Nasdaq Global Select Market on November 4, 2024 (such date being within five business days of the date that this registration statement was filed with the U.S. Securities and Exchange Commission).