

# SECURITIES AND EXCHANGE COMMISSION

## Washington, D.C. 20549

### SCHEDULE 13D

Under the Securities Exchange Act of 1934

Enzo Biochem, Inc.

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

294100102

(CUSIP Number)

Lizette Perez-Deisboeck  
c/o Battery Ventures, One Marina Park Drive, Suite 1100  
Boston, MA, 02210  
(617) 948-3600

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

06/23/2025

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box. ☐

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

### SCHEDULE 13D

CUSIP No. 294100102

1	Name of reporting person Battery Ventures XIV, L.P.
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO

5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or place of organization DELAWARE	
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 11,575,824.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 11,575,824.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) <input type="checkbox"/>	
13	Percent of class represented by amount in Row (11) 21.8 %	
14	Type of Reporting Person (See Instructions) PN	

### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Battery Ventures XIV-EF, L.P.
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
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### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Battery Investment Partners XIV, L.P.
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
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### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Battery Partners GP XIV, LLC
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Neeraj Agrawal
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
6	Citizenship or place of organization UNITED STATES

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### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Michael M. Brown
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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CUSIP No.	294100102
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1	Name of reporting person Morad Elhafed
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
6	Citizenship or place of organization UNITED STATES



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### SCHEDULE 13D

CUSIP No.	294100102
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1	Name of reporting person Jesse Feldman
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
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1	Name of reporting person Russell L. Fleischer
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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CUSIP No.	294100102
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1	Name of reporting person Roger H. Lee
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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1	Name of reporting person Zachary Smotherman
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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1	Name of reporting person Chelsea R. Stoner
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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1	Name of reporting person Dharmesh Thakker
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
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## SCHEDULE 13D

### Item 1. Security and Issuer

(a) Title of Class of Securities:

Common Stock, par value \$0.01 per share

(b) Name of Issuer:

Enzo Biochem, Inc.

(c) Address of Issuer's Principal Executive Offices:

21 Executive Blvd., Farmingdale, NEW YORK , 11735.

### Item 2. Identity and Background

(a) This Schedule 13D is being filed on behalf of Battery Ventures XIV, L.P. ("BV14"), Battery Ventures XIV-EF, L.P. ("BV14-EF"), Battery Investment Partners XIV, L.P. ("BIP14"), Battery Partners XIV, L.P. ("BP14"), Battery Partners GP XIV, LLC ("BPGP14"), Neeraj Agrawal ("Agrawal"), Michael M. Brown ("Brown"), Morad Elhafed ("Elhafed"), Jesse Feldman ("Feldman"), Russel L. Fleischer ("Fleischer"), Roger H. Lee ("Lee"), Zachary Smotherman ("Smotherman"), Chelsea R. Stoner ("Stoner") and Dharmesh Thakker ("Thakker"). The foregoing individuals are collectively referred to as the "BV Managing Members" and, together with the foregoing entities, the "Reporting Persons." The Reporting Persons disclaim membership in any "group" with any person other than the Reporting Persons. The filing of this Schedule 13D by the Reporting Persons shall not be considered an admission that such Reporting Persons, for the purpose of Section 13(d) of the Exchange Act, are the beneficial owners of any of the shares of common stock covered in this report, and the Reporting Persons expressly disclaim such beneficial ownership. The agreement among the Reporting Persons to file this Schedule 13D jointly in accordance with Rule 13d-1(k) of the Securities Exchange Act of 1934, as amended, (the "Act") is attached hereto as Exhibit 99.1.

(b) The principal business office of the Reporting Persons is One Marina Park Drive, Suite 1100, Boston, MA 02210.

(c) The principal business of the Reporting Persons is venture capital investments. Agrawal, Brown, Elhafed, Feldman, Fleischer, Lee, Smotherman, Stoner and Thakker are the sole managing members of BPGP14, the general partner of BIP14 and BP14, which is the general partner of each of BV14 and BV14-EF.

(d) During the last five years, none of the Reporting Persons has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).

(e) During the last five years, none of the Reporting Persons has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

- (f) Agrawal, Brown, Feldman, Elhafed, Fleischer, Lee, Smotherman, Stoner and Thakker are citizens of the United States. BV14, BV14-EF, BIP14 and BP14 are limited partnerships organized under the laws of the State of Delaware. BPGP14 is a limited liability company organized under the laws of the State of Delaware.

**Item 3. Source and Amount of Funds or Other Consideration**

Item 4 of this Schedule 13D is incorporated herein by reference.

**Item 4. Purpose of Transaction**

On June 23, 2025, the Issuer entered into an Agreement and Plan of Merger (the "Merger Agreement") with Bethpage Parent, Inc., a Delaware corporation ("Bethpage"), and Bethpage Merger Sub, Inc., a New York corporation and a wholly owned subsidiary of Bethpage ("Merger Sub"). Pursuant to the terms of the Merger Agreement, Bethpage will acquire the Issuer transaction through the merger of Merger Sub with and into the Issuer, with the Issuer continuing as the surviving corporation of the merger (the "Merger") and a wholly owned subsidiary of Bethpage, subject to the terms and conditions set forth in the Merger Agreement. Bethpage and Merger Sub are each affiliates of BV14, BV14-EF and BIP 14. The foregoing description of the Merger Agreement does not purport to be complete and is qualified in its entirety by reference to the full text of the Merger Agreement, a copy of which is attached hereto as Exhibit 99.2 and incorporated by reference herein.

Concurrently with the execution of the Merger Agreement, all of the Company's officers and directors and the Company's largest shareholder, Harbert Discovery Fund, LP and its affiliates (collectively, the "Voting Parties") entered into voting and support agreements in favor of Bethpage and Merger Sub, pursuant to which such persons have, subject to the terms and conditions set forth therein, agreed to vote all of their shares of common stock, \$0.01 par value per share, of the Issuer ("Common Stock") owned by the Voting Parties, representing approximately 21.8% of the Issuer's issued and outstanding Common Stock in the aggregate, in favor of the Merger and the adoption of the Merger Agreement and against any alternative transaction proposal (collectively, the "Voting Agreements"). In addition, each shareholder party to a Voting Agreement has agreed not to take certain actions, including (i) transferring any Shares (subject to certain exceptions), (ii) granting any proxies or powers of attorney or (iii) exercising any dissenters' rights with respect to the Merger. No separate consideration was paid by Bethpage or Merger Sub in connection with the Voting Agreement. The foregoing description of the Voting Agreements does not purport to be complete and is qualified in its entirety by reference to the full text of the Voting Agreement, a copy of which is attached hereto as Exhibit 99.3 and incorporated by reference herein.

**Item 5. Interest in Securities of the Issuer**

- (a) As a result of the Voting Agreements, the Reporting Persons may be deemed to be the beneficial owner of 11,575,824 shares of the Issuer's Common Stock, which includes 656,787 shares of Common Stock issuable upon the exercise of stock options and 79,780 shares of Common Stock issuable upon the settlement of restricted stock units covered by the Voting Agreements that are either exercisable or assumed to be exercisable within 60 days of June 30, 2025.

The Reporting Persons may be deemed to have the shared power to direct the vote of the shares of the Issuer's Common Stock subject to the Voting Agreements with respect to those matters described in Item 4. However, the Reporting Persons (i) are not entitled to any rights as a shareholder of the Issuer as to the shares of the Issuer's Common Stock subject to the Voting Agreements, (ii) disclaim any beneficial ownership of the shares of the Issuer's Common Stock covered by the Voting Agreements, (iii) do not have the power to dispose of the shares of the Issuer's Common Stock covered by the Voting Agreements, and (iv) do not have the power to cause the stock options to be exercised. Except as described in this Schedule 13D, none of the Reporting Persons beneficially owns any shares of the Issuer's Common Stock.

BP14 is the general partner of each of BV14 and BV14-EF; BPGP14 is the general partner of each of BP14 and BIP14. The BV Managing Members are the managing members of BPGP14.

- (b) Rows 7 through 10 of each Reporting Person's cover page to this Schedule 13D set forth the number of shares of Common Stock as to which such Reporting Person has the sole or shared power to vote or direct the vote and sole or shared power to dispose or to direct the disposition and are incorporated by reference.
- (c) Except as set forth herein, none of the Reporting Persons has effected any transactions with respect to the securities of the Issuer during the past sixty days.
- (d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, the securities beneficially owned by any of the Reporting Persons.
- (e) Not applicable.

**Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer**

Item 4 of this Schedule 13D is incorporated herein by reference.

**Item 7. Material to be Filed as Exhibits.**

Exhibit 99.1 Joint Filing Agreement

Exhibit 99.2 Form of Agreement and Plan of Merger, dated as of June 23, 2025 (incorporated by reference to Exhibit 2.1 to the Issuer's Current Report on Form 8-K filed with the SEC on June 24, 2025).

Exhibit 99.3 Form of Voting and Support Agreement, dated as of June 23, 2025 (incorporated by reference to Exhibit 10.2 to the Issuer's Current Report on Form 8-K filed with the SEC on June 24, 2025).

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Battery Ventures XIV, L.P.



**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Battery Ventures XIV-EF, L.P.

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Battery Investment Partners XIV, L.P.

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Battery Partners XIV, L.P.

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Battery Partners GP XIV, LLC

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Neeraj Agrawal

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Michael M. Brown

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Morad Elhafed

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Jesse Feldman

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

## Russell L. Fleischer

**Signature:** /s/ Christopher Schiavo  
**Name/Title:** By Christopher Schiavo, Attorney-in-Fact  
**Date:** 06/30/2025

Roger H. Lee

Signature: /s/ Christopher Schiavo

Name/Title: By Christopher Schiavo, Attorney-in-Fact

Date: 06/30/2025

Zachary Smotherman

Signature: /s/ Christopher Schiavo

Name/Title: By Christopher Schiavo, Attorney-in-Fact

Date: 06/30/2025

Chelsea R. Stoner

Signature: /s/ Christopher Schiavo

Name/Title: By Christopher Schiavo, Attorney-in-Fact

Date: 06/30/2025

Dharmesh Thakker

Signature: /s/ Christopher Schiavo

Name/Title: By Christopher Schiavo, Attorney-in-Fact

Date: 06/30/2025

## JOINT FILING AGREEMENT

We, the undersigned, hereby express our agreement that the attached Schedule 13D (or any amendments thereto) relating to the common stock of Enzo Biochem, Inc. is filed on behalf of each of us.

Dated: June 30, 2025

**BATTERY VENTURES XIV, L.P.**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**BATTERY VENTURES XIV-EF, L.P.**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**BATTERY INVESTMENT PARTNERS XIV, LP**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**NEERAJ AGRAWAL**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**MICHAEL M. BROWN**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**MORAD ELHAFED**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**JESSE FELDMAN**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**RUSSELL L. FLEISCHER**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**BATTERY PARTNERS XIV, L.P.**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**BATTERY PARTNERS GP XIV, LLC**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**ROGER H. LEE**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**ZACHARY SMOTHERMAN**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**CHELSEA R. STONER**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact

**DHARMESH THAKKER**

By: /s/ Christopher Schiavo

Name: Christopher Schiavo

Title: Attorney-in-Fact