

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287  
Estimated average burden  
hours per response: 0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

☒ Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

☐ Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

1. Name and Address of Reporting Person* <u>Eckert Patricia</u>  (Last) (First) (Middle) <u>C/O ENZO BIOCHEM, INC.</u> <u>21 EXECUTIVE BLVD.</u>  (Street) <u>FARMINGDALE NY 11735</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ENZO BIOCHEM INC [ ENZB ]</u>  3. Date of Earliest Transaction (Month/Day/Year) <u>08/20/2025</u>  4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Financial Officer</u>  6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
--	--	---

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/20/2025		D		28,328 <sup>(1)</sup>	D	(1)	0	I	401k

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (to acquire shares of Common Stock)	(2)	08/20/2025		D			100,000	(2)	(2)	Common Stock	100,000	(2)	0	D	
Stock Option (to acquire shares of Common Stock)	(2)	08/20/2025		D			75,000	(2)	(2)	Common Stock	75,000	(2)	0	D	
Stock Option (to acquire shares of Common Stock)	(2)	08/20/2025		D			25,000	(2)	(2)	Common Stock	25,000	(2)	0	D	
Stock Option (to acquire shares of Common Stock)	(2)	08/20/2025		D			50,000	(2)	(2)	Common Stock	50,000	(2)	0	D	
Stock Option (to acquire shares of Common Stock)	(2)	08/20/2025		D			25,000	(2)	(2)	Common Stock	25,000	(2)	0	D	

Explanation of Responses:

1. The shares were disposed of pursuant to the Agreement and Plan of Merger, dated June 23, 2025 (the "Merger Agreement"), by and among the Issuer, Bethpage Parent, Inc. ("Parent"), and Bethpage Merger Sub, Inc., a wholly-owned subsidiary of Parent ("Merger Sub"). Pursuant to the terms of the Merger Agreement, Merger Sub merged with and into the Issuer (the "Merger"), with the Issuer surviving the Merger as a wholly-owned subsidiary of Parent. At the effective time of the Merger (the "Effective Time"), each share of the Issuer's common stock, par value \$0.01 per share ("Common Stock"), was canceled and automatically converted into the right to receive \$0.70 in cash, without interest and less any applicable withholding taxes (the "Merger Consideration").

2. Pursuant to the Merger Agreement, at the Effective Time, each option that was outstanding as of immediately prior to the Effective Time was automatically, and without any required action on the part of the Reporting Person, canceled without any cash payment or other consideration being made in respect thereof.

/s/ Patricia Eckert  
\*\* Signature of Reporting Person

08/20/2025  
Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.