

FORM 4

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

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person * THALENFELD BARBARA E	2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director X Officer (give title below) 10% Owner ____ Other (specify below) VP, Corporate Development
(Last) (First) (Middle) ENZO BIOCHEM, INC., 527 MADISON AVENUE	3. Date of Earliest Transaction (Month/Day/Year) 02/04/2008	
(Street) NEW YORK, NY 10022	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person ____ Form filed by More than One Reporting Person
(City) (State) (Zip)	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			
Restricted Stock	02/04/2008		M		2,000	A	(1)	55,550 (2)	D	

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

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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 Underlying Securities (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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
THALENFELD BARBARA E ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022			VP, Corporate Development	

Signatures

/s/ Barbara Thalenfeld	02/06/2008
**Signature of Reporting Person	Date

Explanation of Responses:

* 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).

- (1) On February 4, 2008, the Reporting Person was granted 2,000 shares of restricted common stock, par value \$.01 (the "Restricted Stock") as compensation for serving as a officer of the Issuer. The Restricted Stock is subject to a three-year vesting period, subject to acceleration in certain circumstances.
- As of the date hereof, the Reporting Person directly beneficially owned 9,901 shares of Common Stock, 1,020 shares of Common Stock in Enzo Biochem's 401(K) Plan and
- (2) 49,887 options to purchase Common Stock, par value \$0.01 per share, which are currently exercisable. The Reporting Person also owns 2,000 shares of Restricted Stock that are not deemed to be beneficially owned because they are not exercisable within the next 60 days.

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

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