

ENZO BIOCHEM INC

Form 4

December 20, 2007

**FORM 4**
**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

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,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

## OMB APPROVAL

OMB  
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(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**THALENFELD BARBARA E**

(Last) (First) (Middle)

**C/O ENZO BIOCHEM, INC., 527  
MADISON AVENUE**

(Street)

**NEW YORK, NY 10022**

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol  
**ENZO BIOCHEM INC [ENZ]**

3. Date of Earliest Transaction  
(Month/Day/Year)

**12/18/2007**

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_ 10% Owner  
☒ Officer (give title below) \_\_\_\_ Other (specify  
below)

VP, Corporate Development

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
☒ 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<br>Security<br>(Instr. 3)             | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3. Transaction<br>Code<br>(Instr. 8) | 4. Securities<br>Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or<br>Indirect (I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|---------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Common<br>Stock, par<br>value \$0.01<br>per share | 12/18/2007                              |                                                             | C                                    | 1,118<br>(1)                                                               | A (1) 55,550 (2)                                                                                                   | D                                                                    |                                                                   |

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

**Persons who respond to the collection of  
information contained in this form are not  
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SEC 1474  
(9-02)

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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) |                            |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|---------------------------------------------------------------|----------------------------|
|                                            |                                                        |                                      |                                                    |                                |                                                                                         | Date Exercisable                                         | Expiration Date | Title                                                         | Amount or Number of Shares |
| Employee Stock Option                      | \$ 10.97                                               | 12/18/2007                           |                                                    | C                              | 6,381                                                                                   | 12/18/1997                                               | 12/18/2007      | Common Stock, par value \$0.01 per share                      | 6,381                      |

## Reporting Owners

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

## Signatures

/s/ Barbara  
Thalenfeld 12/20/2007

\_\_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).

The Reporting Person exercised a stock option to purchase 6,381 shares of Common Stock and paid the exercise price thereof by the  
(1) surrender of 5,263 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 1,118 shares. The stated exercise price of the stock option was \$10.97.

As of the date hereof, the Reporting Person directly beneficially owned 9,901 shares of Common Stock, 1,020 shares of Common Stock  
(2) in Enzo Biochem's 401(K) Plan and 49,887 options to purchase Common Stock, par value \$0.01 per share, which are currently exercisable.

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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