

ENZO BIOCHEM INC  
Form 5  
September 14, 2005

**FORM 5**

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

OMB APPROVAL

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Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

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

(Last) (First) (Middle)

C/O ENZO BIOCHEM INC, 527  
MADISON AVE

(Street)

NEW YORK, NY 10022

(City) (State) (Zip)

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

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
07/31/2005

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)  
Vice President, Corporate Devl

6. Individual or Joint/Group Reporting

(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 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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock, par value \$0.01 per share	12/10/2004		M	7,036 A	\$ 7.107 14,817 <sup>(1)</sup>	D	
Common Stock, par value \$0.01 per share	02/05/2005		S	2,697 D	\$ 18.51 14,817	D	
	07/11/2005		S	3,570 D	\$ 17.8 14,817	D	

Common  
Stock, par  
value \$0.01  
per share

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

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(9-02)

**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 Underlying Securities (Instr. 3 and 4)
					(A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Employee Stock Option	\$ 7.107	12/10/2004	^	M	^ 7,036	12/20/1998 12/20/2004	Common Stock, par value \$0.01 per share 7,036

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
THALENFELD BARBARA E C/O ENZO BIOCHEM INC 527 MADISON AVE NEW YORK, NY 10022	^	^	^ Vice President, Corporate Devl	^

## Signatures

/s/ Barbara E. Thalendorf 09/14/2005

\_\_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)

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As of the end of Issuer's Fiscal Year, 07/31/2005, the Reporting Person directly beneficially owned 14,817 shares of Common Stock, 381 shares of Common Stock in Enzo Biochem's 401(K) Plan, and 41,905 options to purchase Common Stock, par value \$0.01 per share, exercisable.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.