FORM	4
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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).

#### 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 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 Re THALENFELD BAR	2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
C/O ENZO BIOCHEM	(First) M INC, 527 MA	(Middle) ADISON AVE	3. Date of Earliest Transaction (Month/Day/Year) 04/14/2005						X_Officer (give title below)Other (specify below)Other (			
NEW YORK, NY 100		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 2. Transaction   (Instr. 3) Date   (Month/Day/Yea)				Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	Owned Following Reported Transaction(s)	Ownership of Indired Form: Beneficia	Beneficial	
			(Month/Day/Year)	Code	v	Amount	(A) or (D) Price		(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common Stock, Par Value \$0.01 04/14/2005			М		4,221	А	\$ 6.84	15,654	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 required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
	Conversion	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	)	of Deri Secu Acq (A) Disp of (I	ivative urities uired or posed D) tr. 3, 4,	6. Date Exercisable and		le and 7. Title and Amoun of Underlying		Derivative Security (Instr. 5)	Securities Beneficially Owned Following	Ownership Form of Derivative Security: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code		(A)	,	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Options	\$ 6.84	04/14/2005		М			4,221	05/31/1999 <mark>(1)</mark>	05/31/2005	Common Stock	4,221	\$ 0	51,284	D	

## **Reporting Owners**

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

### **Signatures**

/s/ Dr. Barbara E. Thalenfeld	04/18/2005
**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) The options vested in four equal annual installments, beginning on May 31, 1995.

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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