## FORM 4

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

OMB APPROVAL					
OMB Number:	3235-0287				
Estimated average	burden				
houre par response	0.5				

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																	
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 10% Owner						
527 MAD	(Last) (First) (Middle) 27 MADISON AVENUE				3. Date of Earliest Transaction (Month/Day/Year) 08/09/2007							X Officer (give title below) Other (specify below)  VP, Corporate Development					
NEW YO	(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 Acqu						Acquir	tired, Disposed of, or Beneficially Owned						
1.Title of Sec (Instr. 3)	1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Execut			(Instr. 8)		4. Securities Acqu (A) or Disposed of (Instr. 3, 4 and 5)		of (D) Owner Trans		. Amount of Securities Beneficially Owned Following Reported Transaction(s) Instr. 3 and 4)		Ownership Form:	7. Nature of Indirect Beneficial Ownership	
				(WOILL)	Day/ I ca		ode V	V Ar	nount	(A) or (D)	Price	or Indire		or Indirect	ect (Instr. 4)		
Common S share	Stock, par	value \$0.01 per	08/09/2007					3,	191	A	<u>(1)</u>	71,18	39 <mark>(2)</mark>			D	
							in t	his fo	rm are		quired	to re	spond u	informati	form displa		1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of		Table II -  3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transact	s, calls, w tion 5. N of Deri	arrant	in tl a cu quired, D	his fourrent Dispose s, conv Exerci ion Da	ed of, of vertible isable a	e not re id OMB or Benefi e securit	quired contro icially C ies)	Owned e and Aderlyin	spond unber. d Amount	8. Price of	9. Number of Derivative Securities Beneficially	of 10. Owners Form o	11. Natu
Derivative Security	Conversion or Exercise	Date	3A. Deemed Execution Date, if any	4. Transact	s, calls, w 5. N of Deri Secu Acq (A) o Disp of (I	varive urities uired or oosed 0) r. 3, 4,	in the a current, Days, options 6. Date Expirati	his fourrent Dispose s, conv Exerci ion Da	ed of, of vertible isable a	e not re id OMB or Benefi e securit	quired control icially (ies) 7. Title of Und Securit	Owned e and Aderlyin	spond unber. d Amount	8. Price of Derivative Security	9. Number of Derivative Securities	of 10. Owners Form o Derivat Securit Direct ( or India	11. Nature of Indire Beneficity Owners! (Instr. 4)
Derivative Security	Conversion or Exercise Price of Derivative	Date	3A. Deemed Execution Date, if any	4. Transact	s, calls, w tion of Deri Secu Acq (A) Disp of (I (Inst	varive urities uired or oosed 0) r. 3, 4,	in the a current, Days, options 6. Date Expirati	his fourrent Dispose s, con Exerci ion Da //Day/Y	ed of, of vertible isable a	e not re id OMB or Benefi e securit	quired control icially (ies) 7. Title of Und Securit	of num Owned e and A derlyin ties 3 and	spond unber. d Amount	8. Price of Derivative Security	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction	of 10. Owners Form o Derivat Security Direct ( or Indir (s) (I)	11. Nature of Indire Beneficity Owners! (Instr. 4)

### **Reporting Owners**

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

## **Signatures**

/s/ Barbara Thalenfeld	08/13/2007
**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 3,191 shares of Common Stock and paid the exercise price thereof by the surrender of 2,082 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 1,109 shares. The stated exercise price of the stock option was \$11.665.
- (2) As of the date hereof, the Reporting Person directly beneficially owned 20,282 shares of Common Stock, 1,020 shares of Common Stock in Enzo Biochem's 401(K) Plan, and 49,887 options to purchase Common Stock, par value \$0.01 per share, which are exercisable within 60 days from the date hereof.

Note: File three copies of this Form, one of which must be manually signed. If space 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.