

ENZO BIOCHEM INC  
Form 4  
September 25, 2008

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**BASS HERBERT B**  
  
(Last) (First) (Middle)

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

5. Relationship of Reporting Person(s) to Issuer  
  
(Check all applicable)

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

3. Date of Earliest Transaction (Month/Day/Year)  
**09/23/2008**

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
**Senior Vice President, Finance**

**NEW YORK, NY 10022**  
  
(City) (State) (Zip)

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

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 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 Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock, par value \$0.01 per share	09/23/2008		M	A	6,078 (1) \$ 5.45	203,744 (2)	D
Common Stock, par value \$0.01 per share	09/23/2008		F	D	2,942 (1) \$ 11.26	200,802 (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**

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)
							Amount or Number of Shares
Employee Stock Option	\$ 5.45	09/23/2008		M	6,078	10/01/2002 10/01/2008	Common Stock, par value \$0.01 per share 6,078

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BASS HERBERT B C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022			Senior Vice President, Finance	

## Signatures

/s/ Herbert B. Bass 09/25/2008

\*\*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) The Reporting Person exercised a stock option to purchase 6,078 shares of Common Stock and paid the exercise price thereof by the surrender of 2,942 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 3,136 shares. The stated exercise price of the stock option was \$5.45.
- (2) Includes (i) 49,399 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 1,000 shares of restricted Common Stock, and (iii) 4,756 shares of Common Stock held in the Company's 401(k) plan.

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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