

ENZO BIOCHEM INC  
Form 4  
December 20, 2007

**FORM 4**

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

OMB APPROVAL

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**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 \*  
**RABBANI SHAHRAM K**  
  
(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)  
**Treasurer, Secretary**  
  
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 Indirect Beneficial Ownership (Instr. 4)
Common Stock, par value \$0.01 per share	12/18/2007		C	(A) 10,179 (1)	(D) 2,190,745 (2)	D	
Common Stock, par value \$0.01 per share	12/19/2007		S	59,600	D \$ 13.1221	D	
Common Stock, par value \$0.01 per share	12/20/2007		S	74,797	D \$ 13.0305	D	

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 of Underlying Securities (Instr. 3 and 4)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Employee Stock Option	\$ 10.97	12/18/2007		C	63,814	12/18/1997 12/18/2007	Common Stock, par value \$0.01 per share 63,814

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
RABBANI SHAHRAM K C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022	X		Treasurer, Secretary	

## Signatures

/s/ Shahram K. Rabbani  
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).

(1) The Reporting Person exercised a stock option to purchase 63,814 shares of Common Stock and paid the exercise price thereof by the surrender of 52,632 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 10,179 shares. The stated exercise price of the stock option was \$10.97.

(2) Includes (i) 459,528 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 1,354 shares of Common Stock held in the name of the Reporting Person's son, (iii) 1,671 shares of Common Stock that the Reporting Person holds as custodian for certain of his nephews and (iv) 3,500 shares of restricted Common Stock that vest within 60 days from the date hereof. Includes 4,881 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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