FORM 4

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

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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 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person * RABBANI ELAZAR				2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]						_x	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X Officer (give title below) Other (specify below) Chairman and CEO					
(Last) (First) (Middle) C/O ENZO BIOCHEM, INC., 527 MADISON AVENUE				3. Date of Earliest Transaction (Month/Day/Year) 09/23/2008						_X						
(Street) NEW YORK, NY 10022				4. If Amendment, Date Original Filed(Month/Day/Year)							_X_	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)	<u> </u>	(State)	(Zip)			Table	I - No	on-Deriva	ative S	ecurities	Acquired	Disposed o	f, or Benefi	cially Owne	l	
1.Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)			if Code (Instr.	(Instr. 8)		4. Securities Acquire (A) or Disposed of (Instr. 3, 4 and 5)		(D) Ow Tra	Transaction(s)		•	6. Ownership Form:	Beneficial
			(Month/Day/Year)		r) Co	de	V Am	nount	(A) or (D) I	Price	or (I)		Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)		
Common S share	Stock, par	value \$0.01 per	09/23/2008			N	1	60, (1)	,755	A \$ 5	.45 2,1	2,185,745 ⁽²⁾			D	
Common S share	Stock, par	value \$0.01 per	09/23/2008			F	,	29, (1)	406	D \[\frac{\\$}{1} \]	1.26 2,1	56,339 ⁽²⁾			D	
Reminder: Re	eport on a se	parate line for each c		· Derivat	ive Secui	rities Acc	P ir a quired	dersons this for current	rm are ly vali ed of, o	e not recid OMB	quired to control n cially Owr	respond u umber.		on containe orm displa		1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date	Table II - 3A. Deemed Execution Date, if	Derivat (e.g., pu 4. Transac Code	ive Securits, calls, 5. N of Γ Security Or Γ of (I	rities Acc warrants umber erivative urities uired (A) visposed O) tr. 3, 4,	quired 6. Da Expi	dersons this for current	rm are ly vali ed of, of vertible isable a te	e not rec id OMB o or Benefic e securiti	quired to control n cially Owr	respond unumber. red ad Amount ying	nless the f	9. Number o	f 10. Owners Form o Derivat Securit Direct or India	Benefic ive Owners y: (Instr. 4
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative	3. Transaction Date	Table II - 3A. Deemed Execution Date, if any	Derivat (e.g., pu 4. Transac Code	ive Securits, calls, 5. Notion of E Security Acquired or E of (I (Ins)	rities Acc warrants umber erivative urities uired (A) visposed O) tr. 3, 4,	quired s, option 6. Date	rersons on this for current is, Dispose ons, converted Exercitation Danth/Day/	rm are ly vali ed of, o vertible isable a ite Year)	e not recid OMB or Benefic escuriti	cially Ownes) 7. Title arof Underl	respond unumber. red ad Amount ying	8. Price of Derivative Security	9. Number of Derivative Securities Beneficially Owned Following Reported	f 10. Owners Form o Derivat Securit Direct or India	11. Na of Indi Benefi Owner (Instr.

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
RABBANI ELAZAR C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022	X		Chairman and CEO			

Signatures

/s/ Elazar Rabbani	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 60,755 shares of Common Stock and paid the exercise price thereof by the surrender of 29,406 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 31,349 shares. The stated exercise price of the stock option was \$5.45.
- Includes (i) 398,773 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 3,469 shares of Common Stock held in the name of the Reporting Person's wife as custodian for certain of their children, (iv) an aggregate of 5,100 shares of Common Stock held in the name of the Reporting Person's children, (v) 7,500 shares of restricted Common Stock, and (vi) 4,916 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.

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.