

FORM 5

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

OMB APPROVAL	
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ANNUAL 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

- Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
- Form 3 Holdings Reported
- Form 4 Transactions Reported

1. Name and Address of Reporting Person* RABBANI ELAZAR (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. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 07/31/2003 4. If Amendment, Date Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chairman of the Board and CEO 6. Individual or Joint/Group Reporting (check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person
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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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Amount	(A) or (D)	Price				
Common Stock	04/19/2002		G	10,500	D	\$ ⁽¹⁾	1,489,674 ⁽²⁾	D		
Common Stock	04/19/2002		G	3,000	D	\$ ⁽¹⁾	1,486,674 ⁽²⁾	D		
Common Stock	04/29/2002		G	1,500	D	\$ ⁽¹⁾	1,485,174 ⁽²⁾	D		
Common Stock	12/13/2002		G	1,500	D	\$ ⁽¹⁾	1,483,674 ⁽²⁾	D		
Common Stock	05/02/2003		G	1,500	D	\$ ⁽¹⁾	1,482,174 ⁽²⁾	D		
Common Stock	05/02/2003		G	1,500	D	\$ ⁽¹⁾	1,480,674 ⁽²⁾	D		
Common Stock							3,304	I	See footnote 3. ⁽³⁾	
Common Stock							2,065	I	See footnote 4. ⁽⁴⁾	

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.

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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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned at End of Issuer's Fiscal Year (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date					

Reporting Owners

Relationships	
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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 of the Board and CEO	

Signatures

/s/ Elazar Rabbani		11/19/2003
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) Gift to educational institution.
 - (2) Includes 2,600 shares held in the Company's 401(k) plan.
 - (3) Held in the name of Dr. Rabbani as custodian for certain of his children.
 - (4) Held in the name of Dr. Rabbani's wife as custodian for certain of their children.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure.

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