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

(Print or Ty	pe Response	s)																
1. Name and Address of Reporting Person* RABBANI SHAHRAM K					2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X_Director 10% Owner					
(Last) (First) (Middle) C/O ENZO BIOCHEM, INC., 527 MADISON AVENUE					3. Date of Earliest Transaction (Month/Day/Year) 09/23/2004								X Officer (give title below) Other (specify below)  COO, Treasurer and Secretary					
(Street) NEW YORK, NY 10022				4. If	4. If Amendment, Date Original Filed(Month/Day/Year)							6. Individual or Joint/Group Filing(Check Applicable Line)  _X_ Form filed by One Reporting PersonForm filed by More than One Reporting Person						
(City		(State)	(Zip)			Tal	ole I -	Non	-Der	ivative S	Securi	ities /	Acau	ired. Dispe	osed of, or I	Beneficially	Owned	
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year)			2A. Deemed Execution Date, if any		, if	3. Transac Code (Instr. 8)					ired 5. Amou Beneficia Reported		nt of Securities ally Owned Following d Transaction(s)		6. Ownership Form:	Beneficial		
			(Mon	(Month/Day/Year)		Coo	le	V Amount (A) or (D)		or	Price	(Instr. 3 a	/		Ownership (Instr. 4)			
Common \$.01 per	Stock, pa share	r value	09/21/2004				G	Ť		100,00	<sup>00</sup> D	:	\$ 0	0			D	
Common Stock, par value \$.01 per share													1,900,511 (2)			D		
Reminder:	Report on a s	separate line fo	or each class of secu Table II -	Deriva	ative Secu	ritie	es Acq	uire	Pers cont the f	ons what ained in orm dis	no res n this splays	forns a c	n are urre	not requesting ntly valid	ction of inf uired to res OMB conf	spond unle	ess	1474 (9-02)
	l.			<i>(e.g.</i> , p	outs, calls,			, opt					1					44.37
Security	2. Conversion or Exercise Price of Derivative Security	se (Month/Day/	Year) Execution Da				Number and		and i	ate Exercisable Expiration Date onth/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Owners Form of Derivat Securit Direct of Or India	Benefici Ownersh (Instr. 4) D) ect	
					Code	V (	(A)	(D)	Date Exer		Expira Date	ation	Title	Amount or Number of Shares				

## **Reporting Owners**

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

### **Signatures**

/s/ Shahram Rabbani	09/23/2004
**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) These securities were gifted to ARJ Children Corp., a corporation whose sole stockholder ARJ Children Trust.
- As of the date hereof, the Reporting Person directly beneficially owns 1,560,694 shares of Common Stock, 2,956 shares of Common Stock in Enzo Biochem's 401K plan
- (2) and 340,194 options to purchase Common Stock, par value \$.01 per share which are currently exercisable. The Reporting Person also has an indirect beneficial interest in 614 shares in the name of his son and 1,671 shares that he holds as custodian for certain of his nephews.

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.