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

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

1. Name and Address of Reporting Person *- GOLDBERG DAVID C				2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ] 3. Date of Earliest Transaction (Month/Day/Year) 08/10/2004 4. If Amendment, Date Original Filed(Month/Day/Year) 08/16/2004					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X Officer (give title below) Other (specify below) Vice President, Bus. Dev. 6. Individual or Joint/Group FilingCheck Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(Last) (First) (Middle) C/O ENZO BIOCHEM INC, 527 MADISON AVE (Street) NEW YORK, NY 10022																
(City		(State)	(Zip)			Table I -	Non-Dei	rivative	Securiti	es Acq	uired, Di	sposed of	, or Benefic	cially Owned		
(Instr. 3) Da		2. Transaction Date (Month/Day/Year			Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D (Instr. 3, 4 and 5)			Owned Following Transaction(s)		ecurities Beneficially ng Reported		6. Ownership Form:	Beneficial	
				(Month	n/Day/Year)	Code	V	mount	(A) or (D)	Price		(Instr. 3 and 4) Direct (I or Indire (I) (Instr. 4)		r Indirect I)	Ownership (Instr. 4)	
Common	Stock		08/10/2004			М	3	,350	A	\$ 7.276	73,62	8 (2)		1)	
Reminder: I	Report on a so	eparate line for each	class of securities be	neficially	owned dire	ectly or indi	Person this for	m are	not requ	ired t		nd unles		n contained n displays a	in SEC	1474 (9-02)
Reminder: I	Report on a se	eparate line for each	class of securities be	neficially	owned dire	ectly or indi	rectly.									
1. Title of Derivative Security	2. Conversion or Exercise	3. Transaction	Table II 3A. Deemed Execution Date, if any	- Deriva (e.g., p 4. Transacti Code	tive Securivation Security 5. Numbor of Derivati	ties Acquir varrants, op per 6. Date Date ve (Mont	Person this for current ed, Dispertions, co	m are tly vali osed of, onvertib able and	not requ d OMB of or Bene	ficially ties) on 7. of Se	oresponding of the control of the co	Amount	8. Price of Derivative Security	9. Number o Derivative Securities	10. Owners Form of	11. Natural of Indirection Beneficial
1. Title of Derivative Security	2. Conversion	3. Transaction Date	Table II 3A. Deemed Execution Date, if	- Deriva (e.g., p 4. Transacti Code	tive Securion tits, calls, was 5. Number of	ties Acquir varrants, op oer 6. Date Date (Wontes d	Person this for current ed, Dispertions, con	m are tly vali osed of, onvertib able and	not requ d OMB of or Bene ble securi	ficially ties) on 7. of Se	Owned Title and Underlyin	Amount	8. Price of Derivative	9. Number o	Tool Owners Form of Derivat Security Direct (or Indir	11. Nature of Indire Benefic Owners: (Instr. 4
1. Title of Derivative Security	2. Conversion or Exercise Price of Derivative	3. Transaction Date	Table II 3A. Deemed Execution Date, if any	- Deriva (e.g., p 4. Transacti Code (Instr. 8)	tive Securiuts, calls, w 5. Numbor of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3, and 5)	ties Acquir varrants, op oer 6. Date Date (Wontes d	Person this for current ed, Dispositions, co e Exercis h/Day/Ye	m are tly vali osed of, nvertit able and ear)	not requ d OMB of or Bene ble securi	control ficially ties) on 7. of Se (In	to respond number Owned Title and Underlyin curities astr. 3 and	Amount	8. Price of Derivative Security	9. Number o Derivative Securities Beneficially Owned Following Reported Transaction(Owners Form of Derivat Security Direct (or Indires)	11. Nath of Indir Benefic Owners (Instr. 4

D (O N)	Relationships				
Reporting Owner Name / Address	Director	10% Owner	Officer	Other	
GOLDBERG DAVID C C/O ENZO BIOCHEM INC 527 MADISON AVE NEW YORK, NY 10022			Vice President, Bus. Dev.		

Signatures

/s/David C. Goldberg	08/13/2004
**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) The options vested as to 25% of the shares on the one (1) year anniversary of the date of grant (8/17/94) and 25% on each one year anniversary thereafter.

As of the date hereof, the Reporting Person directly beneficially owns 18,559 shares of Common Stock, 2,164 shares of Common Stock in Enzo Biochem's 401K plan and 51,972 options to (2) purchase Common Stock, par value \$.01 per share which are currently exercisable. The Reporting Person also has an indirect beneficial interest in 933 shares as custodian for certain of his children.

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.