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

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average	burden						
houre per reenonee	0.5						

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 Type	Responses)																
1. Name and Address of Reporting Person * KELKER NORMAN E				2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]								5.	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle) C/O ENZO BIOCHEM, INC., 527 MADISON AVENUE				3. Date of Earliest Transaction (Month/Day/Year) 09/23/2008							ar)		X Officer (give title below) Other (specify below) Senior Vice President				
(Street) NEW YORK, NY 10022			4. If Amendment, Date Original Filed(Month/Day/Year)								6. _X	6. Individual or Joint/Group FilingCheck Applicable Line) X_Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)			(Zip)	Table I - Non-Derivative Securities Acqui							Securities	s Acquire	ired, Disposed of, or Beneficially Owned				
(Instr. 3) Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		(Instr. 8)		(4. Securities Acqui (A) or Disposed of (Instr. 3, 4 and 5)		C(D) Ov Tr	Transaction(s) Form: (Instr. 3 and 4) Direct or Indi		Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Coc	de	V	Amount	(A) or (D)	Price				(I) (Instr. 4)	
Common S share	stock, par	value \$0.01 per	09/23/2008				М	[12,155 <u>1)</u>	Δ	5.45	6,738			D	
Common S share	tock, par	value \$0.01 per	09/23/2008				F			5,883 1)	11)	11.26	0,855			D	
			Table II -					uire	a curre	osed of	alid OMB or Benefible securit	control	number.	uniess the	form displa	ys	
1. Title of Derivative Security (Instr. 3) 2. Conversion Date or Exercise (Month/Day/Year Security			3A. Deemed Execution Date, if any (Month/Day/Year)	4. 5. Num f Transaction Code Securi (Instr. 8) Acqui or Dis of (D)			umber erivative urities uired (A) isposed (D) r. 3, 4,	mber rivative ities ired (A) po d) . 3, 4,			e and	T .	es		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s	Owners Form o Derivat Securit Direct (or India (s) (I)	Beneficia Ownersh (Instr. 4)
				Code	v	(A)	(D)	Date	e rcisable		piration te	Title	Amour or Number of Shares		(Instr. 4)	(Instr. 4	.)
Employee Stock Option	\$ 5.45	09/23/2008		М			12,155	10/	01/20	02 10	/01/2008	Comm Stock par val \$0.01 j share	ue 12,15 per	5 \$0	0	D	
Reporti	ing Ov	vners															

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
KELKER NORMAN E C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022			Senior Vice President					

Signatures

/s/ Norman E. Kelker	09/25/2008			
**Signature of Reporting Person	Date			

Explanation of Responses:

- \star 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 12,155 shares of Common Stock and paid the exercise price thereof by the surrender of 5,883 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 6,272 shares. The stated exercise price of the stock option was \$5.45.

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.