UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL OMB Number: 3235-0287 Washington, D.C. 20549 Estimated average burden hours per response... 0.5 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

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	e reesponses)																
1. Name and Address of Reporting Person * BASS HERBERT B				2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]						4	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) 08/20/2007							X Officer (give title below) Other (specify below) VP, Finance				ow)		
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)								6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person					
NEW YORK, NY 10022 (City) (State) (Zip)			(Zip)	Table I - Non-Derivative Securities Acqu						es Acquir	uired, Disposed of, or Beneficially Owned						
(Instr. 3)		2. Transaction Date (Month/Day/Year)				Code (Instr.	(4. Securities Acqui (A) or Disposed of (Instr. 3, 4 and 5)		of (D)	(D) Owned Follow Transaction(s				6. Ownership Form:	Beneficial	
				(Month/Day/Year)		Coo	de V	Amoun	(A) or (D)	Price	(Instr. 3 and 4) Direct (D) or Indirect (I) (Instr. 4)		Ownership (Instr. 4)				
Common S share	Stock, par	value \$0.01 per	08/20/2007				C		1,595	A	\$ 11.655	201,744 (1)		D	D		
Reminder: Ro								in this	form		equired	to res	spond u	f information	on contain form displa		2 1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2.	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transac Code	etion	5. No of Derir Secu Acqu (A) o Disp of (E) (Inst	arrants umber vative rities nired or osed 0) r. 3, 4,	in this	form ently v oosed o onvert ercisab	are not r valid OM! of, or Bene tible secur le and	equired B contro eficially (ities)	Owned e and Aderlying	spond unber. I Amount	8. Price of		of 10. Owners Form o Derivat Securit Direct (or Indin	ship of Indirect Beneficia Ownershi (Instr. 4)
1. Title of Derivative Security	2. Conversion or Exercise Price of Derivative	Date	3A. Deemed Execution Date, if any	4. Transac Code	etion	5. No of Deriv Secu Acqu (A) o Disp of (E	arrants umber vative rities nired or osed 0) r. 3, 4,	in this a curr quired, Disp s, options, c 6. Date Exc Expiration	osed onvertercisab Date y/Year	are not r valid OM! of, or Bene tible secur le and	equired B contro eficially Crities) 7. Title of Und Securit	to resol num Owned e and A derlyingties 3 and 4	spond unber. I Amount	8. Price of Derivative Security	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction	of 10. Owners Form o Derivat Securit Direct (or Indir (s) (I)	ship of Indirect Beneficia Ownershi (Instr. 4)

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
BASS HERBERT B C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK, NY 10022			VP, Finance				

Signatures

/s/ Herbert Bass	08/21/2007
**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) As of the date hereof, the Reporting Person directly beneficially owned 139,511 shares of Common Stock, 2,000 shares of Restricted Stock, 4,756 shares of Common Stock in Enzo Biochem's 401(K) Plan and 55,477 options to purchase Common Stock, par value \$0.01 per share, which are exercisable within 60 days from the date hereof.

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.