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

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### 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

I. Name and Address of Reporting Person BASS HERBERT B	2. Issuer Name <b>and</b> Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) C/O ENZO BIOCHEM, INC., 527 M AVENUE	LDICONT	3. Date of Earliest Transaction (Month/Day/Year) 09/23/2008						X_Officer (give title below) Other (specify below) Senior Vice President, Finance			
(Street) NEW YORK, NY 10022	2	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City) (State)	(Zip)	Table I - Non-Derivative Securities Acq					es Acqu	ired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if	(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D)	Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock, par value \$0.01 per share	09/23/2008		М		6,078 ( <u>1)</u>	А	\$ 5.45	203,744 (2)	D		
Common Stock, par value \$0.01 per share	09/23/2008		F		2,942 (1)	D	\$ 11.26	200,802 (2)	D		

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.

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)															
1. Title of	2.	3. Transaction	3A. Deemed	4. 5. Number		6. Date Exercisable and		7. Title and Amount		8. Price of	9. Number of	10.	11. Nature		
Derivative	Conversion	Date	Execution Date, if	Transact	nsaction of Expiratic		Expiration Dat	ite of Under		ng	Derivative	Derivative	Ownership	of Indirect	
Security	or Exercise	(Month/Day/Year)		Code		Deri	ivative	(Month/Day/Y	ear)	Securities		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8	)		urities			(Instr. 3 and 4) (		· · · ·	~	Derivative	1
	Derivative						uired								(Instr. 4)
	Security					(A)							0	Direct (D)	
						of (I	bosed				Reported Transaction(s)	or Indirect			
							tr. 3, 4,					(Instr. 4)	(I) (Instr. 4)		
						and 5)					(msu: i)	(msu: i)			
							,				Amount				
								_			or				
									Expiration	Title	Number				
								Exercisable	Date		of				
				Code	V	(A)	(D)				Shares				
										Common					
Employee										Stock,					
Stock	\$ 5.45	09/23/2008		М			6.078	10/01/2002	10/01/2008		6.078	\$ 0	0	D	
	\$ 5.45	09/23/2008		111			0,078	10/01/2002		-		φU	U	D	
Option										\$0.01 per					
										share					

## **Reporting Owners**

	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			Senior Vice President, Finance						

# Signatures

/s/ Herbert B. Bass	09/25/2008
**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 Reporting Person exercised a stock option to purchase 6,078 shares of Common Stock and paid the exercise price thereof by the surrender of 2,942 shares of Common Stock, for a net gain in outstanding shares of Common Stock of 3,136 shares. The stated exercise price of the stock option was \$5.45.
- (2) Includes (i) 49,399 shares of Common Stock issuable upon the exercise of options which are exercisable within 60 days from the date hereof, (ii) 1,000 shares of restricted Common Stock, and (iii) 4,756 shares of Common Stock held in the Company's 401(k) plan.

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

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