FORM 4	ŀ
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(Check this box if no
1	onger subject to
S	Section 16. Form 4 or
1	Form 5 obligations
1	nay continue. See
1	Instruction 1(b).

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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 P Kent Stephen B H	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) C/O ENZO BIOCHEM, INC. AVENUE	3. Date of Earliest Transaction (Month/Day/Year) 06/11/2010					Officer (give title below)	Other (specify b	pelow)		
(Street)	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				
NEW YORK CITY, NY 1002									, 1 013011	
(City) (State)	(Zip)	Ta	ble I - Non	-Der	ivative Se	ecuritie	s Acqu	ired, Disposed of, or Beneficially	Owned	
1.Title of Security 2. Transaction (Instr. 3) Date (Month/Day/Year)			Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	Reported Transaction(s)	Ownership of Form: B	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock, par value \$0.01 per share	06/11/2010		S		200	D	\$ 4.24	24,954	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		500	D	\$ 4.25	24,454	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		700	D	\$ 4.26	23,754	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		600	D	\$ 4.27	23,154	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		300	D	\$ 4.28	22,854	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		900	D	\$ 4.29	21,954	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		100	D	\$ 4.31	21,854	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		200	D	\$ 4.32	21,654	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		800	D	\$ 4.33	20,854	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		200	D	\$ 4.35	20,654	D	
Common Stock, par value \$0.01 per share	06/11/2010		S		500	D	\$ 4.36	20,154	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1474 (9-02)

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Persons who respond to the collection of information

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

 (a.g., puts, calls, warrants, options, convertible securities)

			(e.g.,	puts, cans, w	arrants, op	tions, convertible securi	illes)				
1. Title of	2.	3. Transaction	3A. Deemed	4.	5.	6. Date Exercisable	7. Title and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transaction	Number	and Expiration Date	Amount of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	of	(Month/Day/Year)	Underlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative		Securities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				Securities		(Instr. 3 and		Owned	Security:	(Instr. 4)
	Security				Acquired		4)		Following	Direct (D)	
					(A) or				Reported	or Indirect	
					Disposed				Transaction(s)	(I)	
					of (D)				(Instr. 4)	(Instr. 4)	
					(Instr. 3,						
					4, and 5)						

	Code V (A) (D	Date Expiration Date Tit	Amount or Number of Shares	
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Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Kent Stephen B H C/O ENZO BIOCHEM, INC. 527 MADISON AVENUE NEW YORK CITY, NY 10022	Х					

Signatures

/s/ Stephen B. H. Kent, Ph.I	D.	06/15/2010
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).

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.