Kent Stephen B H Form 4 June 16, 2010

FORM 4

if no longer

Section 16.

Form 4 or

obligations

Form 5

subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 Check this box

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Last)

(City)

(Print or Type Responses)

1. Name and Address of Reporting Person * Kent Stephen B H

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

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response...

Estimated average

burden hours per

(Middle)

(Zip)

ENZO BIOCHEM INC [ENZ]

(Check all applicable)

C/O ENZO BIOCHEM, INC., 527

(Street)

(State)

(First)

3. Date of Earliest Transaction (Month/Day/Year)

06/11/2010

_X__ Director 10% Owner Other (specify Officer (give title below)

MADISON AVENUE

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I. Non Derivative Securities Acquired Disposed of or Peneficially Owned

NEW YORK CITY, NY 10022

(City)	(State)	Table	e I - Non-D	erivative S	Securi	ties Acc	quired, Disposed o	of, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 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	

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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.

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.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1.	Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exercisable and	7. Title and	8. Price of	9. Nu
D	erivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	orNumber	Expiration Date	Amount of	Derivative	Deriv
Se	ecurity	or Exercise		any	Code	of	(Month/Day/Year)	Underlying	Security	Secui
(I	nstr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e	Securities	(Instr. 5)	Bene
		Derivative				Securities	3	(Instr. 3 and 4)		Owne
		Security				Acquired				Follo

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(A) or Disposed of (D) (Instr. 3, 4, and 5)

Code V (A) (D) Date Expiration Title Amount Exercisable Date or

Number of Shares

Reporting Owners

NEW YORK CITY, NY 10022

Reporting Owner Name / Address

Director 10% Owner Officer Other

Kent Stephen B H

C/O ENZO BIOCHEM, INC.
527 MADISON AVENUE

Signatures

/s/ Stephen B. H. Kent, Ph.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.

Reporting Owners 3

Repo Trans (Instr