

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2009-01-26** | Period of Report: **2009-01-22**

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ISSUER

ENZO BIOCHEM INC

CIK: **316253** | IRS No.: **132866202** | State of Incorporation: **NY** | Fiscal Year End: **0731**
SIC: **8071** Medical laboratories

Mailing Address

*ENZO BIOCHEM INC
60 EXECUTIVE BLVD
FARMINGDALE NY 11735*

Business Address

*60 EXECUTIVE BLVD
FARMINGDALE NY 11735
5167555500*

REPORTING OWNER

BALEZENTIS CARL W

CIK: **1286811**
Type: **4** | Act: **34** | File No.: **001-09974** | Film No.: **09546589**

Mailing Address

*C/O ENZO BIOCHEM, INC.
527 MADISON AVENUE
NEW YORK NY 10022*

Business Address

212-583-0100

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person BALEZENTIS CARL W			2. Issuer Name and Ticker or Trading Symbol ENZO BIOCHEM INC [ENZ]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Pres., Enzo Life Sciences, Inc.		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/22/2009					
C/O ENZO BIOCHEM, INC., 527 MADISON AVENUE			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
(Street) NEW YORK, NY 10003								
(City)	(State)	(Zip)						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially 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 (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	01/22/2009		A		10,000	A	(1)	22,696 (2)	D	

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

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

Explanation of Responses:

- Carl Balezentis was granted 10,000 shares of restricted Common Stock on January 22, 2009.
- Includes 776 shares of Common Stock held in the Company's 401(k) plan.

Signatures

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

* 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.

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 Number.