

ENZO BIOCHEM INC  
Form 3  
September 17, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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  
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|  |         |                                      |  |  |
|--|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person *    |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                     |  |
| Â Perlysky Dov                               |         | (Month/Day/Year)                     | ENZO BIOCHEM INC [ENZ]   |  |
| (Last)                                       | (First) | (Middle)                             | 4. Relationship of Reporting Person(s) to Issuer                       | 5. If Amendment, Date Original Filed(Month/Day/Year) |
|  |         | 09/06/2012                           |  |  |
| C/O ENZO BIOCHEM, INC., Â 527 MADISON AVENUE |         |                                      | (Check all applicable)   |  |
| (Street)                                     |         |                                      | <input checked="" type="checkbox"/> Director                           | <input type="checkbox"/> 10% Owner                   |
|  |         |                                      | <input type="checkbox"/> Officer                                       | <input type="checkbox"/> Other                       |
|  |         |                                      | (give title below) (specify below)                                     |  |
|  |         |                                      | 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  |  |
| NEW YORK, Â NY Â 10022                       |         |                                      |  |  |
| (City)                                       | (State) | (Zip)                                |  |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 19,964  | D  | Â   |
| Common Stock                    | 30,000 <sup>(1)</sup>                                 | I  | By wife   |
| Common Stock                    | 525,826 <sup>(2)</sup>                                | I  | By GRAT   |
| Common Stock                    | 45,000 <sup>(3)</sup>                                 | I  | By Sky Ventures LLC                                   |

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

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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|   |   |  |   |   |   |
|---|---|--|---|---|---|
| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and<br>Expiration Date<br><small>(Month/Day/Year)</small> | 3. Title and Amount of<br>Securities Underlying<br>Derivative Security<br>(Instr. 4) | 4.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 5.<br>Ownership<br>Form of<br>Derivative<br>Security:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) | 6. Nature of Indirect<br>Beneficial Ownership<br>(Instr. 5) |
|   | Date<br>Exercisable   | Expiration<br>Date<br><br>Title  | Amount or<br>Number of<br>Shares                                      |   |   |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| Perlysky Dov<br>C/O ENZO BIOCHEM, INC.<br>527 MADISON AVENUE<br>NEW YORK, NY 10022 | X             | ^         | ^       | ^     |

## Signatures

/s/ Dov Perlysky                      09/17/2012

\*\*Signature of                      Date  
Reporting Person

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 5(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) Represents shares of common stock of the Issuer owned by the Laya Perlysky IRA. Laya Perlysky is Dov Perlysky's spouse. Dov Perlysky disclaims beneficial ownership of the shares owned by the Laya Perlysky IRA.
- (2) Represents shares of common stock of the Issuer owned by RSD 2010 Enzo GRAT, whose trustee is Dov Perlysky.
- (3) Represents shares of common stock of the Issuer owned by Sky Ventures LLC, whose manager is Dov Perlysky.

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.