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INITIAL STATEMENT OF 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

1. Name and Address of Reporting Person * <u>COUCHMAN JONATHAN</u> (Last) (First) (Middle) <u>C/O ENZO BIOCHEM, INC.</u> <u>21 EXECUTIVE BLVD.</u> (Street) <u>FARMINGDALE NY</u> <u>11735</u> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>11/22/2024</u>	3. Issuer Name and Ticker or Trading Symbol <u>ENZO BIOCHEM INC [ENZ]</u> 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
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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	130,000	I	By Xstelos Holdings, Inc. ⁽¹⁾
Common Stock	40,000	I	By Myrexix, Inc. ⁽²⁾
Common Stock	277,237	I	In retirement accounts ⁽³⁾

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

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

Explanation of Responses:

1. Shares are owned by Xstelos Holdings, Inc., of which the Reporting Person is the sole officer and controlling person. He controls a majority of the shares of Xstelos Holdings, Inc. through shares held in his personal Roth IRA retirement account and through shares held by Couchman Investments LP, a family investment fund, which he controls and which is owned by him and by a trust for the benefit of his children, of which he is the investment manager. The Reporting Person disclaims beneficial ownership of the securities of the Issuer reported herein, except to the extent of his pecuniary interest therein, and the filing of this Form 3 shall not be construed as an admission that the Reporting Person is a beneficial owner of the securities of the Issuer reported herein.
2. Shares are owned by Myrexix, Inc., of which the Reporting Person is the sole officer and controlling person. Myrexix, Inc. is controlled by Xstelos Holdings, Inc. The Reporting Person disclaims beneficial ownership of the securities of the Issuer reported herein, except to the extent of his pecuniary interest therein, and the filing of this Form 3 shall not be construed as an admission that the Reporting Person is a beneficial owner of the securities of the Issuer reported herein.
3. 227,237 shares are held in the Reporting Person's personal SEP-IRA retirement account and 50,000 shares are held in the Reporting Person's personal 401(k) retirement account.

Remarks:

Power of Attorney

/s/ Jon Couchman

** Signature of Reporting Person

12/02/2024

Date

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 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).

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.

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that I, Jon Couchman, hereby constitute and appoint Patricia Eckert and Brian Fisher, and each of them, my true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution for me and in my name, place and stead, to sign any Form ID (Uniform Application for Access Codes to File on EDGAR), reports on Form 3 (Initial Statement of Beneficial Ownership of Securities), Form 4 (Statement of Changes in Beneficial Ownership of Securities) and Form 5 (Annual Statement of Beneficial Ownership of Securities) relating to transactions by me in Common Stock or other securities of Enzo Biochem, Inc. and all amendments thereto, and to file the same, with the Securities and Exchange Commission and the appropriate securities exchange, granting unto said attorneys-in-fact and agents, and each of them, or their substitutes, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as fully to all intents and purposes as I might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, and each of them, or their substitutes, may lawfully do or cause to be done by virtue hereof. This Power of Attorney shall be effective until such time as I deliver a written revocation thereof to the above-named attorneys-in-fact and agents.

Dated:

12/02/2024/s/ Jon CouchmanJon Couchman
