

(Print or Type Responses)

|                                                                       |                                         |                                                                                  |                                   |                                                                                                                                                                                                                                                                           |                                                                                                  |                                                             |                                                          |
|-----------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|
| 1. Name and Address of Reporting Person<br>Fischer Rebecca J.         |                                         | 2. Issuer Name and Ticker or Trading Symbol<br>ENZO BIOCHEM INC [ENZ]            |                                   | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br><input checked="" type="checkbox"/> Director<br><input type="checkbox"/> Officer (give title below)<br><input type="checkbox"/> 10% Owner<br><input type="checkbox"/> Other (specify below) |                                                                                                  |                                                             |                                                          |
| (Last) (First) (Middle)<br>C/O ENZO BIOCHEM, INC., 527 MADISON AVENUE |                                         | 3. Date of Earliest Transaction (Month/Day/Year)<br>01/11/2021                   |                                   |                                                                                                                                                                                                                                                                           |                                                                                                  |                                                             |                                                          |
| (Street)<br>NEW YORK, NY 10022                                        |                                         | 4. If Amendment, Date Original Filed (Month/Day/Year)                            |                                   | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person                                                            |                                                                                                  |                                                             |                                                          |
| (City) (State) (Zip)                                                  |                                         | Table 1 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |                                   |                                                                                                                                                                                                                                                                           |                                                                                                  |                                                             |                                                          |
| 1. Title of Security<br>(Instr. 3)                                    | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed Execution Date, if any<br>(Month/Day/Year)                            | 3. Transaction Code<br>(Instr. 8) | 4. Securities Acquired (A) or Disposed of (D)<br>(Instr. 3, 4 and 5)                                                                                                                                                                                                      | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I)<br>(Instr. 4) | 7. Nature of Indirect Beneficial Ownership<br>(Instr. 4) |
|                                                                       |                                         |                                                                                  | Code                              | V                                                                                                                                                                                                                                                                         | Amount                                                                                           | (A) or (D)                                                  | Price                                                    |

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

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| Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned<br>(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 Underlying Securities (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) |
|                                                                                                                                                 |                                                        |                                      |                                                    |                                |  |                                                                                         |  |                                                          |            |                                                               |        |                                            |                                                                                                    |                                                                                  |                                                        |
| Stock Option (to acquire Common Stock)                                                                                                          | \$ 2.63                                                | 01/11/2021                           |                                                    | A                              |  | 77,101                                                                                  |  | 01/11/2022 <sup>(1)</sup>                                | 01/11/2026 | Common Stock                                                  | 77,101 | \$ 0                                       | 160,434                                                                                            | D                                                                                |                                                        |

Reporting Owners

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

Signatures

|                                 |            |
|---------------------------------|------------|
| /s/ Rebecca J. Fischer          | 01/13/2021 |
| **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).

(1) The Reporting Person was granted 77,101 stock options. The stock options have a five-year term and 50% of the stock options will vest on the first anniversary of the grant date and 50% on the second anniversary of the grant date.

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.