FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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| OMB Number: | 3235-0104 |
|--------------------------|-----------|
| Estimated average burden | |
| hours per response: | 0.5 |

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

| Name and Address of Reporting Person* NEUGEBOREN EDWARD | | 2. Date of Event Requiring Statement (Month/Day/Year) 10/10/2023 | l | 3. Issuer Name and Ticker or Trading Symbol Acasti Pharma Inc. [ACST] | | | | |
|--|---------|--|------------------------|---|---------------------------------|---|---|--|
| (Last) (First) (Middle) | | | (Check all applicable) | | | 5. If Amendment, Date of Original Filed (Month/Day/Year) | | |
| C/O ACASTI PHARMA INC. 2572 BOUL. DANIEL-JOHNSON, 2ND FLOOR | | | X | X Director Officer (give title below) | 10% Owner Other (specify below) | Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person | | |
| (Street) LAVAL | A8 | H7T 2R3 | | | | | Form filed by More than One Reporting Person | |
| (City) | (State) | (Zip) | | | | | | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | ` , | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | , |
|---------------------------------|--------|--|---|
| Common Shares | 37,895 | D | |

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) | | Derivative Security (Instr. 4) | | Conversion or Exercise | Form: Direct (D) or | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|--------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|---|
| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Price of Derivative Security | ive (Instr. 5) | |

Explanation of Responses:

/s/ Edward Neugeboren

10/20/2023

** Signature of Reporting Person

Date

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

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.

 $^{^{\}star}$ 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).