

| OMB APPROVAL | |
|--|-----------|
| OMB Number: | 3235-0287 |
| Estimated average burden hours per response: | 0.5 |

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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

| | | |
|--|---|---|
| 1. Name and Address of Reporting Person* <u>HOLLER FRANK A</u> (Last) (First) (Middle) 200 - 3650 GILMORE WAY (Street) BURNABY A1 V5G 4M1 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Xenon Pharmaceuticals Inc. [XENE]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) |
| | 3. Date of Earliest Transaction (Month/Day/Year) 05/29/2020 | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

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 Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-----------------------|---|--|--|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Shares | 05/29/2020 | | M | | 3,086 | A | \$3.56 ⁽¹⁾ | 122,041 | D | |
| Common Shares | | | | | | | | 1,184 ⁽²⁾ | I | Spouse |

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: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|--------|--|---------------------------|---|--|--|---|---|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Stock Option (Right to Buy) | \$3.56 ⁽¹⁾ | 05/29/2020 | | M | | | 3,086 | (3) | 06/02/2020 ⁽⁴⁾ | Common Shares | 3,086 | \$0.00 | 0 | D | |
| Stock Option (Right to Buy) | \$13.11 | 06/01/2020 | | A | | | 10,000 | (5) | 05/31/2030 | Common Shares | 10,000 | \$0.00 | 10,000 | D | |

Explanation of Responses:

- The exercise price was converted from \$3.74 CAD using the closing rate of exchange of the Bank of Canada on the date of grant. The actual exercise price is the Canadian dollar amount regardless of the exchange rate on the date of exercise
- The shares held indirectly by the Reporting Person's spouse were inadvertently omitted from the Form 4 filed on September 20, 2019.
- The shares subject to the option fully vested on December 31, 2012. The date the options became fully vested was incorrectly reflected on the Reporting Person's Form 3.
- Expiration date differs from originally reported date due to an automatic extension provided by the option plan as a result of the original expiration date falling during a Company blackout period.
- One-third of the total shares subject to the Option shall vest on the one year anniversary of the grant date, one-third of the total shares subject to the Option shall vest on the two year anniversary of the grant date, one-third of the total shares subject to the Option shall vest on the three year anniversary of the grant date.

Remarks:

/s/ Cassandra Robinson,
Attorney-in-fact 06/02/2020
 ** Signature of Reporting Person 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 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.