

| OMB APPROVAL | |
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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>Coulie Bernard</u> (Last) (First) (Middle) C/O PLIANT THERAPEUTICS, INC. 260 LITTLEFIELD AVENUE (Street) SOUTH SAN FRANCISCO CA 94080 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>PLIANT THERAPEUTICS, INC. [PLRX]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>President and CEO</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>01/17/2024</u> | |
| | 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 Stock | 01/17/2024 | | S | | 25,721 | D | \$17.23 ⁽¹⁾ | 316,382 | D | |
| Common Stock | | | | | | | | 409,317 | I | See footnote ⁽²⁾ |

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 Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|--|-----|--|-----------------|---|--|--|---|--|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | | | | | |

Explanation of Responses:

1. Represents a nondiscretionary sale by the plan on behalf of the Reporting Person in a manner intended to satisfy the requirements of Rule 10b5-1. The sale price of the Reporting Person's shares represents the weighted average of all shares sold by a broker at prices ranging from \$16.33 to \$17.90, inclusive, between January 17, 2024 and January 18, 2024 on behalf of a group of employees of the Issuer, including the Reporting Person, to satisfy the payment of withholding tax liability in connection with the vesting of previously granted restricted stock units. The Reporting Person undertakes to provide Pliant Therapeutics, Inc., any security holder of Pliant Therapeutics, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold on behalf of the group of employees of the Issuer at each separate price within the range set forth in footnote (1) to this Form 4.

2. Shares held by The Coulie/Leyman Family Trust. The Reporting Person and his spouse serve as trustees for the trust. The Reporting Person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, and the inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of all of the reported shares for purposes of Section 16 or for any other purpose.

Remarks:

/s/Mike Ouimette, attorney-in-fact 01/19/2024

** 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.