### FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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

#### 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

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|  | Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10. |  |
|--|--|--|
|--|--|--|

| 1. Name and Address of Reporting Person*<br>Lane Brian E. |               |       | 2. Issuer Name and Ticker or Trading Symbol<br><u>Main Street Capital CORP</u> [ MAIN ] |   | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br>X Director 10% Owner |                       |  |  |  |
|---|---------------|-------|---|---|--|-----------------------|--|--|--|
| (Last)  | , , , , , , , |       | 3. Date of Earliest Transaction (Month/Day/Year)<br>02/15/2024                          |   | Officer (give title below)   | Other (specify below) |  |  |  |
| 1300 POST OAK BLVD<br>8TH FLOOR                           |               |       | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                | 6. Individual or Joint/Group Filing (Check Applicable Lin<br>X Form filed by One Reporting Person |  |                       |  |  |  |
| (Street)<br>HOUSTON                                       | TX            | 77056 |   |   | Form filed by More than  | One Reporting Person  |  |  |  |
| (City)  | (State)       | (Zip) | native Securities Accuring Disposed of an Depoficie                                     |   |  |                       |  |  |  |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction<br>Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | Transaction I<br>Code (Instr. |   | 4. Securities Acquired (A) or<br>Disposed Of (D) (Instr. 3, 4 and 5) |               |         | 5. Amount of<br>Securities<br>Beneficially Owned<br>Following Reported | 6. Ownership<br>Form: Direct (D)<br>or Indirect (I)<br>(Instr. 4) | Beneficial<br>Ownership |  |
|---------------------------------|--|---|-------------------------------|---|--|---------------|---------|--|---|-------------------------|--|
|                                 |  |   | Code                          | v | Amount   | (A) or<br>(D) | Price   | Transaction(s)<br>(Instr. 3 and 4)                                     |   | (Instr. 4)              |  |
| Common Stock                    | 02/15/2024                                 |   | <b>J</b> <sup>(1)</sup>       | v | 54.825   | A             | \$44.4  | 38,272.6398  | D   |                         |  |
| Common Stock                    | 02/15/2024                                 |   | <b>J</b> <sup>(1)</sup>       | v | 146.448  | A             | \$44.83 | 38,419.0878  | D   |                         |  |

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of<br>Derivative<br>Security (Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transac<br>Code (In<br>8) |   | 5. Num<br>Derivat<br>Securit<br>Acquire<br>or Disp<br>(D) (Ins<br>and 5) | ive<br>ies<br>ed (A)<br>osed of | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 7. Title and Amount of<br>Securities Underlying<br>Derivative Security<br>(Instr. 3 and 4) |                                     | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | Reported                     | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | Beneficial<br>Ownership<br>(Instr. 4) |
|--|---|---|---------------------------------|---|--|---------------------------------|--|--------------------|--|-------------------------------------|---|------------------------------|--|---------------------------------------|
|  |   |   | Code                            | v | (A)  | (D)                             | Date<br>Exercisable  | Expiration<br>Date | Title  | Amount<br>or<br>Number<br>of Shares |   | Transaction(s)<br>(Instr. 4) |  |                                       |

#### Explanation of Responses:

1. The reporting person acquired these shares under a dividend reinvestment plan, pursuant to a dividend reinvestment transaction exempt from Section 16 under Rule 16a-11.

# /s/ Jason B. Beauvais, Attorney-in- 03/05/2024

Fact

\*\* 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.