

SPIRE CORP  
Form 4  
March 23, 2011

**FORM 4**

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

OMB APPROVAL

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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 OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
MAYER GUY L

(Last) (First) (Middle)

SPIRE CORPORATION, ONE  
PATRIOTS PARK

(Street)

BEDFORD, MA 01730

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
SPIRE CORP [SPIR]

3. Date of Earliest Transaction  
(Month/Day/Year)  
03/22/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  |                                | (A) or (D)<br>Code V Amount (D) Price                             |   |  |  |

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

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Security (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|                                 |                           |                                      |                                   |                     |                                    |  |   |

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| (Instr. 3)                                      | Price of<br>Derivative<br>Security | (Month/Day/Year) | (Instr. 8) | Acquired<br>(A) or<br>Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | Code | V | (A)   | (D) | Date<br>Exercisable | Expiration<br>Date | Title           | Amount<br>or<br>Number<br>of<br>Shares |
|---|------------------------------------|------------------|------------|---|------|---|-------|-----|---------------------|--------------------|-----------------|--|
| Non-Qualified<br>Stock Option<br>(right to buy) | \$ 4.65                            | 03/22/2011       |            |   | A    |   | 2,000 |     | 03/22/2011          | 03/22/2021         | Common<br>Stock | 2,000                                  |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| MAYER GUY L<br>SPIRE CORPORATION<br>ONE PATRIOTS PARK<br>BEDFORD, MA 01730 |               | X         |         |       |

## Signatures

Guy L. Mayer                      03/23/2011  
 \_\_Signature of                      Date  
 Reporting Person

## 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).

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.