

SPIRE CORP
Form SC 13G/A
February 14, 2006

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934
Information statement pursuant to Rule 13d-1 and 13d-2

(AMENDMENT NO. 7) *

Spire Corporation

(Name of Issuer)

Common Stock, 0.01 par value per share

(Title of Class of Securities)

848565 10 7

(CUSIP Number)

December 31, 2005

Date of Event Which Requires Filing of this Statement

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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(continued on the following pages)

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- ITEM 1. (a) Name of Issuer
Spire Corporation
- (b) Address of Issuer's Principal Executive Offices
One Patriots Park
Bedford, Massachusetts 01730-2396
- ITEM 2. (a) Name of Person Filing
Roger G. Little
- (b) Address of Principal Business Office, or, if None, Residence
One Patriots Park, Bedford, Massachusetts 01730-2396
- (c) Citizenship
United States
- (d) Title of Class of Securities
Common Stock, \$0.01 par value per share
- (e) CUSIP Number
848565 10 7
- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B) OR 13D-2(B),
CHECK WHETHER THE PERSON FILING IS A:
- (a) Broker or dealer registered under Section 15 of the Act.
- (b) Bank as defined in Section 3(a)(6) of the Act. (c)
Insurance company as defined in Section 3(a)(19) of the Act.
- (d) Investment company registered under Section 8 of the Investment
Company Act of 1940.
- (e) An investment advisor registered under Section 203 of the
Investment Advisors Act of 1940.
- (f) An employee benefit plan, pension fund which is subject to the
provisions of the Employee Retirement Income Security Act of
1974 or endowment fund; see Rule 13d-1(b)(1)(ii)(F).
- (g) A parent holding company or control person in accordance with
Rule 13d-1(b)(ii)(G); see Item 7.
- (h) A savings associations as defined in Section 3(b) of the
Federal Deposit Insurance Act.
- (i) A church plan that is excluded from the definition of an
investment company under Section 3(c)(14) of the Investment
Company Act of 1940.
- (j) Group, in accordance with Rule 13d-1(b)(1)(ii)(H).

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ITEM 4. OWNERSHIP

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: See Item 9 of Cover Page
- (b) Percent of class: See Item 11 of Cover Page
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: See Item 5 of Cover Page.
 - (ii) Shared power to vote or to direct the vote: See Item 6 of Cover Page.
 - (iii) Sole power to dispose or to direct the disposition of: See Item 7 of Cover Page.
 - (iv) Shared power to dispose or to direct the disposition of: See Item 8 of Cover Page.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

Not applicable to reporting person.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON

Not applicable to reporting person.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Not applicable to reporting person.

ITEM 9. NOTICE OF DISSOLUTION OF THE GROUP

Not applicable to reporting person.

ITEM 10. CERTIFICATION

Not applicable to reporting person.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2006

Signature: /s/ Roger G. Little

Name: Roger G. Little
Title: President & CEO