

LAFAVRE RODGER W
Form 4
October 13, 2010

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 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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
LAFAVRE RODGER W

(Last) (First) (Middle)

C/O SPIRE CORPORATION, ONE
PATRIOTS PARK

(Street)

BEDFORD, MA 01730-2396

(City) (State) (Zip)

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

3. Date of Earliest Transaction
(Month/Day/Year)
10/11/2010

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

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

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

COO

6. Individual or Joint/Group Filing(Check
Applicable Line)
__X__ 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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, \$0.01 par value	10/11/2010		M		17,000	A	\$ 4.03	17,000	D	
Common Stock, \$0.01 par value	10/11/2010		S		17,000	D	\$ 5.54 (1)	0	D	

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

**Persons who respond to the collection of
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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 Underlying Security (Instr. 3 and 4)
Employee Stock Option dated November 30, 2000 (right to buy)	\$ 4.03	10/11/2010		M	17,000	11/30/2001 ⁽²⁾ 11/30/2010 ⁽³⁾	Common Stock 17

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LAFAVRE RODGER W C/O SPIRE CORPORATION ONE PATRIOTS PARK BEDFORD, MA 01730-2396			COO	

Signatures

Rodger W. LaFavre 10/13/2010

__Signature of Reporting Person

Date

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).

(1) Price is based on weighted average of sale.

(2) This Option is exercisable in annual increments of 25% of the Option shares, beginning on the first anniversary of Option. This Option is now fully invested and automatically terminates on November 30, 2010, which is the tenth anniversary of the date the Option was granted.

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- (3) The reporting person was granted an Option for 17,000 shares originally issued on November 30, 2000, which were set to expire on November 30, 2010. Accordingly, the reporting person elected to exercise Options.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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