HENSELER UDO

Form 4 January 04, 2006

FORM 4

Check this box

if no longer

subject to

Section 16.

Form 4 or

obligations

may continue.

See Instruction

Form 5

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

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

1(b).

(Print or Type Responses)

HENSELER UDO

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading Symbol

SPIRE CORP [SPIR]

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year) 12/30/2005

C/O SPIRE CORPORATION, ONE PATRIOTS PARK

(Street)

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

6. Individual or Joint/Group Filing(Check

5. Relationship of Reporting Person(s) to

(Check all applicable)

10% Owner

Other (specify

Applicable Line)

X_ Director

Officer (give title

X Form filed by One Reporting Person Form filed by More than One Reporting

Issuer

below)

BEDFORD, MA 01730

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (I) Ownership (Instr. 4) (Instr. 4)

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

1. Title of 2. 3. Transaction Date 3A. Deemed 4. 5. Number 6. Date Exercisable and Derivative Conversion (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date Security

7. Title and Ame Underlying Secu (Instr. 3 and 4)

(Month/Day/Year) or Exercise any Code Securities

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| (Instr. 3) | Price of Derivative Security | | (Month/Day/Year) | (A) o Dispo (D) (Instr | | Acquired (A) or Disposed (D) (Instr. 3, and 5) | d of | | | | |
|---|------------------------------|------------|------------------|---------------------------------|---|---|------|------------------|--------------------|-----------------|-------------------------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | A or N or S |
| Non-Incentive Stock Option (right to buy) | \$ 7.45 | 12/30/2005 | | A | | 1,250 | | 12/30/2006(1) | 12/30/2015 | Common Stock | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|---------|-------|--|--|--|
| FB | Director | 10% Owner | Officer | Other | | | |
| HENSELER UDO C/O SPIRE CORPORATION ONE PATRIOTS PARK BEDFORD, MA 01730 | X | | | | | | |

Signatures

Udo Henseler 01/04/2006

**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) The option is exercisable in annual increments of 25% of the option shares, with the first quarter increment becoming exercisable on the date in this column.

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.

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