HENSELER UDO

Form 4

November 19, 2010

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or

SECURITIES

may continue. See Instruction

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).

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obligations

(Print or Type Responses)

1. Name and Address of Reporting Person * HENSELER UDO

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

SPIRE CORP [SPIR]

(First) (Middle) (Last)

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

X_ Director 10% Owner Officer (give title Other (specify

(Check all applicable)

SPIRE CORPORATION, ONE PATRIOTS PARK

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

11/18/2010

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

below)

BEDFORD, MA 01730

(City) (State) (Zip)

(Street)

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)

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

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 Derivative Security

2. Conversion or Exercise

3. Transaction Date 3A. Deemed

(Month/Day/Year) Execution Date, if any

5. Number Transaction of Derivative Expiration Date Code Securities

Date Exercisable and (Month/Day/Year)

7. Title and Amour Underlying Securit (Instr. 3 and 4)

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(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired Derivative (A) or Security Disposed of (D) (Instr. 3, 4, and 5) Code V (A)

(D) Date Expiration Title Amo or

Exercisable

Date

Non-Qualified

11/18/2010 11/18/2020 **Stock Option** \$ 5.18 11/18/2010 A 2,000 (right to buy)

Common

Stock

Num of Shar

2,0

Reporting Owners

Relationships Reporting Owner Name / Address Director 10% Owner Officer Other

HENSELER UDO SPIRE CORPORATION ONE PATRIOTS PARK BEDFORD, MA 01730

X

Signatures

Udo Henseler 11/19/2010 **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.

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