HENSELER UDO Form 4

May 21, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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OMB APPROVAL

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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).

(Last)

(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]

(Check all applicable)

(First)

(Month/Day/Year)

3. Date of Earliest Transaction

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

C/O SPIRE CORPORATION, ONE

(Street)

05/20/2010

below)

PATRIOTS PARK

(Middle)

6. Individual or Joint/Group Filing(Check Applicable Line)

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

(Instr. 8)

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

(Instr. 4)

BEDFORD, MA 01730-2396

(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)

5. Amount of Securities Beneficially Owned Following

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

(Instr. 4)

(A) or

(Instr. 3, 4 and 5)

Reported Transaction(s)

(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 Derivative Security

2. Conversion or Exercise

3. Transaction Date 3A. Deemed

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

5. Number Transaction Derivative Code Securities

Date Exercisable and **Expiration Date**

(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

Exercisable Date

or Num

> of Shar

> > 2,0

Non-Qualified

Common 05/20/2010 05/20/2010 05/20/2020 **Stock Option** \$ 3.49 A 2,000 Stock (right to buy)

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

HENSELER UDO C/O SPIRE CORPORATION ONE PATRIOTS PARK BEDFORD, MA 01730-2396

X

Signatures

Udo Henseler 05/21/2010 **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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