McKenna Thomas A Form 4 September 08, 2009

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

SECURITIES

Check this box if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

subject to Section 16. Form 4 or

Form 5 obligations

may continue. See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

Symbol

[UNS]

30(h) of the Investment Company Act of 1940

2. Issuer Name and Ticker or Trading

UNISOURCE ENERGY CORP

3. Date of Earliest Transaction

4. If Amendment, Date Original

(Month/Day/Year)

Filed(Month/Day/Year)

09/03/2009

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

McKenna Thomas A

(Last) (First)

1 S. CHURCH AVENUE, SUITE 201

(Street)

(State)

TUCSON, AZ 85701

(City)

Number:

OMB APPROVAL

OMB

3235-0287 January 31,

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0.5

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

Director 10% Owner

X_ Officer (give title Other (specify below)

Vice President

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

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

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(Zip)

(Middle)

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

(A)

or

5. Amount of Owned

Securities Beneficially Following Reported

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

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 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

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

1. Title of Conversion 3. Transaction Date 3A. Deemed

(Month/Day/Year) Execution Date, if Transaction of

5. Number 6. Date Exercisable and **Expiration Date**

7. Title and Amount of 8. Price Underlying Securities

Derivat

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| Security (Instr. 3) | or Exercise Price of Derivative Security | any (Month/Day/Year) | ₹ | Code (Instr. 8) | Deriv Secur Acqu (A) or Dispo of (D (Instr and 5 | ities ired seed) | (Month/Day/Year) | | (Instr. 3 and 4) | | Security (Instr. 5 |
|-------------------------------|--|-------------------------|----------|-----------------|---|----------------------------|--------------------|-------|--|------|-----------------------|
| | | | Code \ | 7 (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | |
| Phantom Stock Units (1) | \$ 0 (3) | 09/03/2009 | | A | 0.13 | | (1)(2) | (2) | Common Stock | 0.13 | \$ 28.7 |

Reporting Owners

| Reporting Owner Name / Address | Relationships |
|--------------------------------|---------------|
|--------------------------------|---------------|

Director 10% Owner Officer Other

McKenna Thomas A 1 S. CHURCH AVENUE SUITE 201 TUCSON, AZ 85701

Vice President

Signatures

Amy J, Welander, Attorney in Fact

09/08/2009

**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).
- Credited as fully-vested dividend equivalents under the UniSource Energy Corporation Management and Directors Deferred Compensation Plan (the "DCP") with respect to dividends declared by the Issuer on its Common Stock.
- Payable at the time or times elected by the reporting person under the DCP and subject to earlier payment in accordance with the DCP.
- (3) Converts to common stock on a 1-for-1 basis.

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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