Hoekstra Arie Form 4 February 28, 2011

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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obligations

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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 may continue.

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Hoekstra Arie

2. Issuer Name and Ticker or Trading

Symbol

UNISOURCE ENERGY CORP

5. Relationship of Reporting Person(s) to

Issuer

[UNS]

(Last) (First) (Middle) 3. Date of Earliest Transaction

(Month/Day/Year) 02/25/2011

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

(Check all applicable)

below) Vice President

1 S. CHURCH AVENUE, SUITE 201

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

TUCSON, AZ 85701

Security

(Instr. 3)

(State) (Zip) (City) 1. Title of 2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3. (Month/Day/Year) Execution Date, if

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

5. Amount of 6. Ownership Securities Form: Direct Beneficially (D) or Indirect Beneficial Owned (I) Following (Instr. 4)

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.

(Month/Day/Year)

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

3. Transaction Date 3A. Deemed 1. Title of (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date Conversion

5. Number

(A)

or

6. Date Exercisable and

7. Title and Amount of 8. Price Underlying Securities Deriva

7. Nature of

Ownership (Instr. 4)

Indirect

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Security (Instr. 3)	or Exercise Price of Derivative Security	any (Mont	any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Month/Day/Year)		(Instr. 3 and 4)		Securi (Instr.
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock Units (1)	\$ 0 (3)	02/25/2011		A	38.23		(1)(2)	(2)	Common Stock	38.23	\$ 35

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Hoekstra Arie 1 S. CHURCH AVENUE SUITE 201 TUCSON, AZ 85701

Vice President

Signatures

Michael Nitido, Attorney in Fact

02/28/2011

**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) Each share of Phantom Stock is the economic equivalent of one share of common stock under the UniSource Energy Corporation Management and Directors Deferred Compensation Plan (the "DCP").
- (2) 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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