PERU RAMIRO G Form 4

December 31, 2009

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

OMB

Expires:

Check this box if no longer

3235-0287 Number:

January 31,

7. Nature of

Ownership (Instr. 4)

Indirect

OMB APPROVAL

subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

2005 Estimated average burden hours per response... 0.5

Form 5 obligations 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).

(Print or Type Responses)

1. Name and Address of Reporting Person * PERU RAMIRO G

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

UNISOURCE ENERGY CORP

(Check all applicable)

[UNS]

(Last) (First) (Middle)

(Street)

3. Date of Earliest Transaction

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

(Month/Day/Year)

12/29/2009

below)

1 S. CHURCH AVENUE, SUITE

201

Security

(Instr. 3)

4. If Amendment, Date Original

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

Filed(Month/Day/Year)

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

TUCSON, AZ 85701

(State) (Zip) (City) 1. Title of

2. Transaction Date 2A. Deemed 3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Month/Day/Year) (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

(A)

or

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)

3. Transaction Date 3A. Deemed 5. Number 6. Date Exercisable and 1. Title of 7. Title and Amount of 8. Pri Derivative (Month/Day/Year) Execution Date, if Transaction of **Expiration Date** Underlying Securities Deriv Conversion

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Deriva Securion Acquin (A) or Dispose of (D) (Instr. and 5)	ties red sed 3, 4,	(Month/Day/Year)		(Instr. 3 and 4)		Secur (Instr
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Dividend Equivalent Rights	<u>(1)</u>	12/29/2009		A	26.9		<u>(1)</u>	<u>(1)</u>	Common Stock	26.9	\$

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
PERU RAMIRO G 1 S. CHURCH AVENUE SUITE 201 TUCSON, AZ 85701	X						

Signatures

Amy J. Welander, Attorney in Fact 12/31/2009

**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).
- (1) Deferred Shares issuable pursuant to dividend equivalent rights on outstanding equity awards will be paid in stock at a future time in accordance with an election made by the Director at the time of the original equity award.

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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