MILLS RICK J Form 4 May 05, 2011

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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

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

(Print or Type Responses)

1(b).

(Last)

1. Name and Address of Reporting Person * MILLS RICK J

2. Issuer Name and Ticker or Trading Symbol

FLOWSERVE CORP [FLS]

(First) (Middle)

3. Date of Earliest Transaction

4. If Amendment, Date Original

(Month/Day/Year)

5215 N O'CONNOR BLVD. STE. 2300

(Street)

(State)

05/05/2011

below) 6. Individual or Joint/Group Filing(Check

5. Relationship of Reporting Person(s) to

(Check all applicable)

10% Owner

Other (specify

Filed(Month/Day/Year)

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

Officer (give title

IRVING, TX 75039

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

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year)

(Zip)

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

5. Amount of Securities Beneficially Owned Following Reported

Issuer

X_ Director

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

OMB APPROVAL

3235-0287

January 31,

2005

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Number:

Expires:

response...

Estimated average

burden hours per

(A) or Code V Amount (D) Price

Transaction(s) (Instr. 3 and 4)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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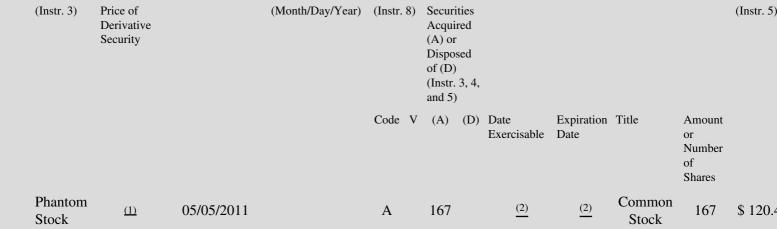
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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

5. Number 6. Date Exercisable and Transactionof **Expiration Date** Code Derivative (Month/Day/Year)

7. Title and Amount of 8. Price **Underlying Securities** Derivati (Instr. 3 and 4) Security

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Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

MILLS RICK J
5215 N O'CONNOR BLVD. STE. 2300 X

IRVING, TX 75039

Signatures

/s/ Ronald F. Shuff, attorney-in-fact 05/05/2011

**Signature of Reporting Person Da

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, and represents director compensation deferred in the form of common stock pursuant to the issuer's deferred compensation plan.
- (2) The shares of phantom stock become payable in the form of common stock upon the reporting person's termination of service as a member of the issuer's board of directors.

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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