MILLS RICK J Form 4 March 02, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

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response...

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

Check this box

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

(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

Issuer

5. Relationship of Reporting Person(s) to

Officer (give title

(Middle)

3. Date of Earliest Transaction

FLOWSERVE CORP [FLS]

(Month/Day/Year)

03/02/2011

(Check all applicable)

10% Owner

Other (specify

5215 N O'CONNOR BLVD. STE.

(First)

(Street)

2300

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X_ Director

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

below)

IRVING, TX 75039

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

(Month/Day/Year)

2. Transaction Date 2A. Deemed Execution Date, if

(Month/Day/Year)

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

5. Amount of Securities Beneficially Owned Following

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

(A) or Code V Amount (D) Price Reported Transaction(s) (Instr. 3 and 4)

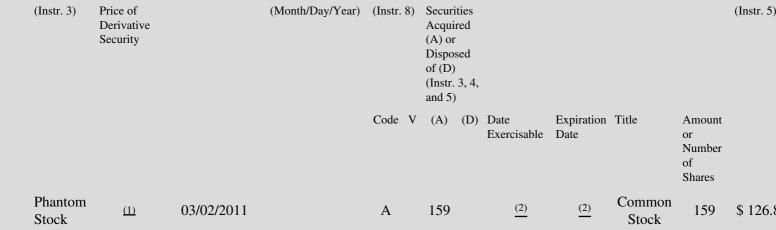
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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 5. Number 6. Date Exercisable and 7. Title and Amount of 8. Price Derivative Conversion (Month/Day/Year) Execution Date, if Transactionof **Expiration Date Underlying Securities** Derivati Security or Exercise any Code Derivative (Month/Day/Year) (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 03/02/2011

**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 on 60 days following 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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