

Guiltinan Richard J JR
 Form 4
 March 26, 2010

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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. Name and Address of Reporting Person *
 Guiltinan Richard J JR

2. Issuer Name and Ticker or Trading Symbol
 FLOWSERVE CORP [FLS]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 5215 N. O'CONNOR BLVD.,
 SUITE 2300

3. Date of Earliest Transaction (Month/Day/Year)
 03/24/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 SVP Finance and CAO

(Street)
 IRVING, TX 75039

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock (\$1.25 par value per share)	03/24/2010		M	4,988 A	23,034	D	
Common Stock (\$1.25 par value per share)	03/24/2010		F	1,427 D	\$ 21,607	D	

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

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(9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Restricted Stock Units	\$ 0 ⁽¹⁾	03/24/2010		M	2,410	⁽¹⁾ 03/24/2010	Common Stock	2,410

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Guiltinan Richard J JR
5215 N. O'CONNOR BLVD., SUITE 2300
IRVING, TX 75039

SVP Finance and CAO

Signatures

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

03/26/2010

**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 performance right represented a contingent right to receive one share of the issuer's common stock at vesting. The performance rights vested at a rate of 200% (plus dividends accrued on the underlying shares) based on the issuer's average return on net assets ("RONA") during a three-year performance cycle beginning on January 1, 2007 and ending on December 31, 2009 in comparison to the average RONA of a predetermined peer group over the same performance cycle.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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