

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 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

OMB APPROVAL	
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(Print or Type Responses)

1. Name and Address of Reporting Person Conway Bruce C.		2. Issuer Name and Ticker or Trading Symbol MRI INTERVENTIONS, INC. [MRIC]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)	
(Last) (First) (Middle) C/O MRI INTERVENTIONS, INC., ONE COMMERCE SQUARE, SUITE 2550		3. Date of Earliest Transaction (Month/Day/Year) 10/17/2012			
(Street) MEMPHIS, TN 38103		4. If Amendment, Date Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	
(City) (State) (Zip)		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)
			Code	V	Amount	(A) or (D)			
Common Stock	10/17/2012		A		5,365	A \$ 2.40 (1)	1,923,883	D (2)	
Common Stock							406,137	I	By Alden M. Conway Trust
Common Stock							406,137	I	By Chase T. Conway Trust
Common Stock							406,137	I	By Merritt E. Conway Trust
Common Stock							239,000 (3)	I	By spouse
Common Stock							25,000	I	By Conway Family GST Trust
Common Stock							17,000	I	By Gordon McShane Trust for Alden M. Conway (4)
Common Stock							17,000	I	By Gordon McShane Trust for Chase T. Conway (5)
Common Stock							17,000	I	By Gordon McShane Trust for Merritt E. Conway (6)
Common Stock							16,500	I	By Edna N. Conway Irrevocable Trust FBO Alden M. Conway
Common Stock							16,500	I	By Edna N. Conway Irrevocable Trust FBO Chase T. Conway

Common Stock							16,500	I	By Edna N. Conway Irrevocable Trust FBO Merritt E. Conway
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number. SEC 1474 (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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Conway Bruce C. C/O MRI INTERVENTIONS, INC. ONE COMMERCE SQUARE, SUITE 2550 MEMPHIS, TN 38103	X			

Signatures

/s/ Oscar Thomas, by power of attorney for Bruce C. Conway
Signature of Reporting Person

10/19/2012
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) These shares were issued in payment of compensation owed to the reporting person under the issuer's director compensation plan. The shares were issued at a price of \$2.40 per share, representing the volume-weighted average price of the issuer's common stock for the 30-trading day period ending October 11, 2012.
- (2) Includes 32,891 shares held jointly with spouse, and 4,950 shares held in an IRA.
- (3) Includes 1,500 shares held through an IRA.
- (4) These shares are held in trust for the benefit of the reporting person's child. The reporting person's spouse is trustee of the trust.
- (5) These shares are held in trust for the benefit of the reporting person's child. The reporting person's spouse is trustee of the trust.
- (6) These shares are held in trust for the benefit of the reporting person's child. The reporting person's spouse is trustee of the trust.

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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