UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

longer subject to or Form 5 obligations may continue. See Instruction 1(b).

Section 16. Form 4 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

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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

r i	e Responses)		ı										
1. Name and Address of Reporting Person -								5. Relationship of Reporting Person(s) to Issuer					
Conway Bruce C.			Symbol MRI INTERVENTIONS, INC. [MRIC]						(Check all applicable) _X_ Director 10% Owner Officer (give title Other (specify				
(Last) (First) (Middle) C/O MRI INTERVENTIONS, INC., ONE COMMERCE SQUARE, SUITE 2550			3. Date of Earliest Transaction (Month/Day/Year)						below) Other (specify below)				
(Street) MEMPHIS, TN 38103									6. Individual or Applicable Line)	Joint/Group	Filing(Check		
									X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table	I - Non-D)eri	vative Securities Acquired, Disposed of, or Beneficially Owned							
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	any		Code		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		or (D)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	V	Amount	or		Reported Transaction(s) (Instr. 3 and 4)	(I) (Instr. 4)			
Common Stock	09/14/2012			Р		1,000	А	\$ 2	16,500	I	By Edna N. Conway Irrevocable Trust FBO Chase T. Conway		
Common Stock	09/14/2012			Р		1,000	Α	\$ 2.25	17,000	I	By Gordon McShane Trust for Chase T. Conway (1)		
Common Stock	09/14/2012			Р		1,000	Α	\$ 2.27 (2)	17,000	I	By Gordon McShane Trust for Alden M. Conway (3)		
Common Stock	09/14/2012			Р		1,000	Α	\$ 2.25	17,000	I	By Gordan McShane Trust for Merritt E. Conway (4)		
Common Stock									1,918,518	D (5)			
Common Stock									406,137	ı	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 (6)	I	By spouse		
Common Stock									25,000	I	By Conway Family GST Trust		
Common Stock									16,500	I	By Edna N. Conway Irrevocable Trust FBO Alden M. Conway By Edna N.		

Commor Stock					1	16,500	1	Conway Irrevocab Trust FB Merritt E. Conway	0			
		separate line for ctly or indirectly.	each class of securi	_								
				information required t	on containe o respond	nd to the colle ed in this form unless the fo control numb	ı are not rm display	SEC 14 (9-0				
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)	Conversion	3. Transaction Date (Month/Day/Yea	Execution Date, if	Code	5. Number of Derivative Securities Acquired (A) or Disposed of (D)	3	on Date	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Derivative Security	Derivative Securities Beneficially Owned Following	Derivative Security: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(Instr. 3, 4, and 5)	Date Exercisable	Expiration Date	Amount or Title Number of		,		

Reporting Owners

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

Signatures

/s/ Oscar Thomas, by power of attorney for Bruce C. Conway	09/14/2012
-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) 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.
- (2) This price is a weighted average price. The shares were purchased in two separate transactions: 500 shares at \$2.25; and 500 shares at \$2.29.
- (3) 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.
- (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) Includes 32,891 shares held jointly with spouse, and 4,950 shares held in an IRA.
- (6) Includes 1,500 shares held through an IRA.

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.