UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no 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**

OMB APPROVAL OMB 3235-Number: 0287 Expires: November 30, 2011 Estimated average burden hours per

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 Typ	e Responses)											
1. Name an	Issuer Name and Ticker or Trading Symbol						5. Relationship	5. Relationship of Reporting Person(s) to				
Conway Bruce C.				ITERVE	NT	IONS, II	NC.		(Check all applicable) _X_ Director			
(Last) (First) (Middle) C/O MRI INTERVENTIONS, INC., ONE COMMERCE SQUARE, SUITE 2550				of Earlies Day/Year 2012		ransactio	n		below) Orner (give title below) Orner (specify below)			
		endment, onth/Day/Yea		te Origina	al		6. Individual or Joint/Group Filing(Check Applicable Line)					
MEMPHIS (City)	Tabl	e I - Non-l	Der	rivative S	Secu	ırities A	_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person cquired, Disposed of, or Beneficially					
1 Title of	O Transaction	los Doom		1				Ow	ned	6.	7. Nature of	
(Instr. 3) (Month/Day/Year) any				4. Securities ion Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				Beneficially Owned	Ownership Form: Direct (D)	Indirect Beneficial Ownership		
				Code	v	Amount	(A) or (D)		Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.204 (1)	234,250	I	By spouse	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.15	14,000	I	By Edna N. Conway Irrevocable Trust FBO Chase T. Conway	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.15	14,000	I	By Edna N. Conway Irrevocable Trust FBO Alden N. Conway	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.15	14,000	I	By Edna N. Conway Irrevocable Trust FBO Merritt E. Conway	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.10	13,500	I	By Gordon McShane Trust for Chase T. Conway (3)	
Common Stock	09/10/2012			Р		2,500	Α	\$ 2.19	13,500	I	By Gordon McShane Trust for Alden M. Conway (4)	
Common Stock	09/10/2012			Р	Р		А	\$ 2.19	13,500	I	By Gordon McShane Trust for Merritt E. Conway (5)	
Common Stock	09/11/2012			Р		5,000	Α	\$ 2.05	25,000	I	By Conway Family GST Trust	
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					1,918,518	D (6)	
Reminder: Report on a se beneficially owned direct	•	ss of securit	Persons informati required	ion contain to respon	and to the colle ned in this form d unless the for B control numb	are not rm displays	SEC 1474 (9-02

(e.g., puts, calls, warrants, options, convertible securities)

Security (Instr. 3)	Conversion	Date (Month/Day/Year)	· · · · · · · · · · · · · · · · · · ·	Code			ative rities ired sed	and Expiration Date (Month/Day/Year)			unt of erlying	Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following	Ownership Form of Derivative Security: Direct (D) or Indirect	Beneficial
				Code	V	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Reporting Owners

Danishing Owner 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	09/12/2012
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.
- (1) This price is a weighted average price. The shares were purchased in two separate transactions: 2,000 shares at \$2.23; and 500 shares at \$2.10.
- (2) Includes 1,500 shares held through an IRA.
- (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) 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) Includes 32,891 shares held jointly with spouse, and 4,950 shares held in an IRA.

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

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.