FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

(Print or Tyr	no Rosponso	·c)															
Person - Symbol SPENCER JOHN N JR MRI INTERVENT [MRIC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director Officer (give title Other (specify									
	INTERVEN E COMMER		,	3. Date of (Month/Date 07/03/20	ay/Year)	ransa	ction		bi	elow)	below)						
(Street) 4. If Amendment, Da Filed(Month/Day/Year)								6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person _Form filed by More than One Reporting Person									
(City)	(State)	(Z	ip)	Table I	- Non-De	rivati	ve Se		s Acc	quired, Disposed	of, or Benefic	ially					
1.Title of Security (Instr. 3)	2. Transa Date (Month/E		any	med on Date, if Day/Year)	Code	ion A D (Ii	Securica Sec	rities d (A) of ed of (I 4 and (A) or	or (D) I I 5) (I	5. Amount of Securities Beneficially Owned Following Reported	Ownership of Form: Be Direct (D)	Nature Indirect eneficial vnership str. 4)					
Common Stock	07/03/2	012			Р		981		1)	27,787 ⁽²⁾	D						
Common Stock									;	3,750	D						
	Report on a : / owned direc			ach class	of securit	Pers info	matio ired to ently	n con o resp valid (tained	d to the collection d in this form are unless the form d control number.	not	EC 1474 (9-02)					
	Ta									neficially Owned							
1. Title of Derivative Security (Instr. 3)	2. Conversion	(<i>e</i> 3. Transa	.g., puts ction	3A. Deer Execution	rrants, o	4. Trans	, conv	5. No of Deri Secu Acqu (A) of Disp of (D	vative urities uired or osed 0) r. 3, 4,	6. Date Exercisa Expiration Date		7. Title and of Underlyi Securities (Instr. 3 and	ng		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)
Derivative Security	2. Conversion or Exercise Price of Derivative	(<i>e</i> 3. Transa Date	.g., puts ction	3A. Deer Execution	rrants, o med n Date, if	4. Trans	saction 8	5. No of Derir Secu Acqu (A) o Disp of (D (Inst	vative urities uired or cosed () r. 3, 4, 5)	urities) 6. Date Exercisa Expiration Date (Month/Day/Yea Date Exercisable		of Underlyi Securities	ng	Derivative Security	Derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect (I)	of Indirect Beneficial Ownership

Reporting Owners

Departing Owner Name / Address	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
SPENCER JOHN N JR C/O MRI INTERVENTIONS, INC. ONE COMMERCE SQUARE, SUITE 2550 MEMPHIS, TN 38103	x					

Signatures

/s/ Oscar Thomas, by power of attorney for John N. Spencer, Jr.	07/06/2012
-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) The reported securities are included within 9,981 units purchased by the reporting person for \$1.10 per unit. Each unit consists of one share of common stock and one warrant to purchase 0.5 share of common stock.
- (2) Held jointly with spouse.
- (3) The shares subject to this warrant are immediately exercisable.
- (4) The reported securities are included within 9,981 units purchased by the reporting person for \$1.10 per unit. Each unit consists of one share of common stock and one warrant to purchase 0.5 share of common stock.
- (5) Held jointly with spouse.

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.