#### FORM 4

longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL
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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

	e Responses) d Address of Repo	rtina	2 10011	or Nomo	nnd	Tieker e	. Tro	dina	5 Relationship o	of Reporting	Person(s)
Person * Whelan S	2. Issuer Name and Ticker or Trading Symbol InfuSystem Holdings, Inc [INHI.OB]					t	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director Officer (give title below) Delow)				
(Last) C/O INFU HOLDING LINCOLN	3. Date of Earliest Transaction (Month/Day/Year) 08/22/2008						Chief Financial Officer				
MADISON	4. If Amendment, Date Original 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)	Table I - Non-Derivative Securities A									
1.Title of Security (Instr. 3)	ecurity Date Execution if any			3. Transaction Code (Instr. 8)		Dispose			5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D)	Beneficial Ownership
				Code	٧	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock, par value \$0.0001 per share	08/22/2008					5,775	D	\$ 2.9	69,225	D	
Common Stock, par value \$0.0001 per share	11/21/2008					5,775	D	\$ 2.1	63,450	D	
	Report on a separat		each clas	s of secu	ıritie	es					
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.						_
	Table II - De	rivative 9	Securities	Acquire	d. Г	Disposed	l of	or Be	neficially Owne	ed	

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

Security (Instr. 3)	Conversion	 3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transact Code (Instr. 8)		5. Numb of Deriv Secu Acqu (A) or Dispo of (D) (Instr 4, and	ative rities ired rosed ) 3,		on Date Year)	Amount of Underlying Securities		of Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s)	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**

Panarting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Whelan Sean C/O INFUSYSTEM HOLDINGS, INC. 1551 E LINCOLN AVE., STE. 200 MADISON HEIGHTS, MI 48071			Chief Financial Officer					

### **Signatures**

/s/ Sean Whelan	04/07/2009
-Signature of Reporting Person	Date

### **Explanation of Responses:**

- $^{\star}$  If the form is filed by more than one reporting person,  $\emph{see}$  Instruction  $4(\emph{b})(\emph{v}).$
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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.