

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person* AWM Investment Company, Inc. (Last) (First) (Middle) 527 MADISON AVENUE, SUITE 2600 (Street) NEW YORK, NY 10022 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 08/07/2019	3. Issuer Name and Ticker or Trading Symbol InfuSystem Holdings, Inc [INFU]		
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)	5. If Amendment, Date Original Filed(Month/Day/Year)	
			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4) Common Stock	2. Amount of Securities Beneficially Owned (Instr. 4) 1,983,350 (1)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) I (1)	4. Nature of Indirect Beneficial Ownership (Instr. 5) By Limited Partnerships (1)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
AWM Investment Company, Inc. 527 MADISON AVENUE SUITE 2600 NEW YORK, NY 10022		X		

Signatures

Adam Stettner	08/13/2019
**Signature of Reporting Person	Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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).

AWM Investment Company, Inc., a Delaware corporation (AWM), is the investment adviser to Special Situations Life Sciences Fund, L.P. (LS), (LS, the Fund). As the investment adviser to the Fund, AWM holds sole voting and investment power over 1,983,350 shares of Common Stock of the Issuer (the Shares) held by LS. Austin W.

(1) Marxe (Marxe), David M. Greenhouse (Greenhouse) and Adam C. Stettner (Stettner) are the controlling principals of AWM. The reporting person disclaims beneficial ownership of the Shares, except to the extent of its pecuniary interest therein. This report shall not be deemed an admission that the reporting person is the beneficial owner of the securities reported herein for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.

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.