

OMB APPROVAL
OMB Number: 3235-0145
Expires: February 28, 2009
Estimated average burden hours per response...10.4

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

SCHEDULE 13G

**Under the Securities Exchange Act of 1934
(Amendment No. 1)***

InfuSystem Holdings, Inc.

(Name of Issuer)

Common Stock, par value \$0.0001
(Title of Class of Securities)

45685K102
(CUSIP Number)

December 31, 2008
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 45685K102

1	NAMES OF REPORTING PERSONS Fir Tree Value Master Fund, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.0%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

CUSIP No. 45685K102

1	NAMES OF REPORTING PERSONS Fir Tree Capital Opportunity Master Fund, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.0%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

CUSIP No. 45685K102

1	NAMES OF REPORTING PERSONS Fir Tree, Inc.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION New York	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.0%	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) CO	

SCHEDULE 13G/A

This Amendment No. 1 to Schedule 13G (the "Schedule 13G") is being filed on behalf of Fir Tree Value Master Fund, L.P., a Cayman Islands exempted limited partnership ("Fir Tree Value"), Fir Tree Capital Opportunity Master Fund, L.P., a Cayman Islands exempted limited partnership ("Fir Tree Capital Opportunity") and Fir Tree, Inc., a New York corporation ("Fir Tree"), relating to common stock, par value \$0.0001 (the "Common Stock") of InfuSystem Holdings, Inc., a Delaware corporation (the "Issuer"), owned by Fir Tree Value and Fir Tree Capital Opportunity. Fir Tree is the investment manager of both Fir Tree Value and Fir Tree Capital Opportunity.

This Amendment is being filed to report (i) that Sapling, LLC, a Delaware limited liability company, transferred ownership of its shares of Common Stock to Fir Tree Value on April 1, 2008 and consequently ceased to be a Reporting Person and (ii) the Reporting Persons no longer beneficially own the Issuer's Common Stock.

Item 1(a) Name of Issuer.

InfuSystem Holdings, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices.

1551 East Lincoln Avenue, Suite 200
Madison Heights, Michigan 48071

Item 2(a) Name of Person Filing.

Item 2(b) Address of Principal Business Office.

Item 2(c) Place of Organization.

Fir Tree, Inc.
505 Fifth Avenue
23rd Floor
New York, New York 10017
A New York corporation

Fir Tree Value Master Fund, L.P.
c/o Admiral Administration Ltd.
Admiral Financial Center, 5th Floor
90 Fort Street, Box 32021 SMB
Grand Cayman, Cayman Islands
A Cayman Islands exempted limited partnership

Fir Tree Capital Opportunity Master Fund, L.P.
c/o Admiral Administration Ltd.
Admiral Financial Center, 5th Floor
90 Fort Street, Box 32021 SMB
Grand Cayman, Cayman Islands
A Cayman Islands exempted limited partnership

Fir Tree, Inc. is the investment manager for each of Fir Tree Value and Fir Tree Capital Opportunity and has been granted investment discretion over portfolio investments, including the Common Stock (as defined below), held by each of them.

- Item 2(d) Title of Class of Securities.**
common stock, par value \$0.0001 (the “Common Stock”)
- Item 2(e) CUSIP Number.**
45685K102
- Item 3 Reporting Person.**
The person filing is not listed in Items 3(a) through 3(j).
- Item 4 Ownership.**
The Reporting Persons own 0 shares of Common Stock.
- Item 5 Ownership of Five Percent or Less of a Class.**
If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owners of more than five percent of the class of securities, check the following .
- Item 6 Ownership of More Than Five Percent on Behalf of Another Person.**
Inapplicable.
- Item 7 Identification and Classification of the Subsidiary which Acquired the Security Being Reported On by the Parent Holding Company.**
Inapplicable.
- Item 8 Identification and Classification of Members of the Group.**
Inapplicable.
- Item 9 Notice of Dissolution of Group.**
Inapplicable.

Item 10**Certification.**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 13, 2009

FIR TREE VALUE MASTER FUND, L.P.

By: FIR TREE, INC., its Manager

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President

FIR TREE CAPITAL OPPORTUNITY MASTER
FUND, L.P.

By: FIR TREE, INC., its Manager

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President

FIR TREE, INC.

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President

EXHIBIT INDEX

Exhibit No. **Description**

1 Joint Filing Agreement

EXHIBIT 1

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a Statement on Schedule 13G (including any and all amendments thereto) with respect to the Common Stock of InfuSystem Holdings, Inc., a Delaware corporation, and further agree that this Joint Filing Agreement shall be included as an Exhibit to such joint filings.

The undersigned further agree that each party hereto is responsible for the timely filing of such Statement on Schedule 13G and any amendments thereto, and for the accuracy and completeness of the information concerning such party contained therein; provided, however, that no party is responsible for the accuracy or completeness of the information concerning any other party, unless such party knows or has reason to believe that such information is inaccurate.

This Joint Filing Agreement may be signed in counterparts with the same effect as if the signature on each counterpart were upon the same instrument.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of February 13, 2009.

FIR TREE VALUE MASTER FUND, L.P.

By: FIR TREE, INC., its Manager

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President

FIR TREE CAPITAL OPPORTUNITY MASTER
FUND, L.P.

By: FIR TREE, INC., its Manager

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President

FIR TREE, INC.

By: /s/ Jeffrey Tannenbaum

Name: Jeffrey Tannenbaum

Title: President