FLIR SYSTEMS INC Form SC 13G/A January 30, 2015

SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Under the Securities Exchange Act of 1934 (Amendment No. 5) *

(Name of Issuer)

Common Stock

(Title of Class of Securities)

302445101

(CUSIP Number)

December 31, 2014

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

(Date of Event Which Requires Filing of this Statement)

- [X] 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. 302445101 13G

¹ NAME OF REPORTING PERSON

| | Artisan Pa | rtners Limited Partnership | | | | |
|----------------------------------|--|---|--|-----|--|--|
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) | | | | | |
| | Not Applicable | | | | | |
| 3 | SEC USE ONL | Y | | | | |
| 4 | CITIZENSHIP Delaware | OR PLACE OF ORGANIZATION | | | | |
| | | 5 SOLE VOTING POWER None | | | | |
| | MBER OF SHARES | | | | | |
| BENEFICIALLY OWNED BY EACH | | 6 SHARED VOTING POWER 14,764,963 | | | | |
| | PORTING PERSON WITH | 7 SOLE DISPOSITIVE POWER None | | | | |
| | | 8 SHARED DISPOSITIVE POWER 15,327,657 | | | | |
| 9 | AGGREGATE A 15,327,657 | MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | |
| 10 | O CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) Not Applicable | | | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 10.9% | | | | | |
| 12 | .2 TYPE OF REPORTING PERSON (see Instructions) IA | | | | | |
| | | | | | | |
| CUS | IP No. 3024 | 45101 13G | | | | |
| 1 | NAME OF REPORTING PERSON Artisan Investments GP LLC | | | | | |
| 2 | CHECK THE A | APPROPRIATE BOX IF A MEMBER OF A GROUP | | [_] | | |
| | Not Applicable | | | | | |
| 3 | SEC USE ONLY | | | | | |
| 4 | CITIZENSHIP Delaware | OR PLACE OF ORGANIZATION | | | | |
| | | 5 SOLE VOTING POWER None | | | | |
| | MBER OF SHARES | | | | | |

| BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | | | SHARED VOTING POWER 14,764,963 SOLE DISPOSITIVE POWER None | | | |
|---|--|-------|---|--------------------|--|--|
| | | 8 | SHARED DISPOSITIVE POWER 15,327,657 | | | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,327,657 | | | | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) Not Applicable | | | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 10.9% | | | | | |
| 12 | TYPE OF REP (see Instru HC | | | | | |
| CUS | IP No. 3024 | 4510 | 01 13G | | | |
| 1 | NAME OF REP Artisan Pa | | ING PERSON ers Holdings LP | | | |
| 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) Not Applicable | | | ons) | (a) [_] (b) [_] | | |
| 3 | SEC USE ONL | У | | | | |
| 4 | CITIZENSHIP Delaware | OR | PLACE OF ORGANIZATION | | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH | | 5 | SOLE VOTING POWER None | | | |
| | | 6 | SHARED VOTING POWER 14,764,963 | | | |
| | PORTING PERSON WITH | 7 | SOLE DISPOSITIVE POWER None | | | |
| | | 8 | SHARED DISPOSITIVE POWER 15,327,657 | | | |
| 9 | AGGREGATE A 15,327,657 | | NT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | |
| 10 | CHECK BOX I (see Instru | cti | | [_] | | |

| 11 | PERCENT OF | CLA | SS REPRESENTED BY AMOUNT IN ROW (9) | | | |
|-----|---|------------|---|--|-----|--|
| 12 | TYPE OF REPORTING PERSON (see Instructions) HC | | | | | |
| | | | | | | |
| CUS | SIP No. 3024 | 451 | 01 13G | | | |
| 1 | NAME OF REP Artisan Pa | | ING PERSON ers Asset Management Inc. | | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) | | | | | |
| | Not Applicable | | | | | |
| 3 | SEC USE ONL | Y | | | | |
| 4 | CITIZENSHIP Delaware | OR | PLACE OF ORGANIZATION | | | |
| | NUMBER OF SHARES BENEFICIALLY OWNED BY EACH | | SOLE VOTING POWER None | | | |
| C | | | SHARED VOTING POWER 14,764,963 | | | |
| | PERSON WITH | 7 | SOLE DISPOSITIVE POWER None | | | |
| | | 8 | SHARED DISPOSITIVE POWER 15,327,657 | | | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,327,657 | | | | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) Not Applicable | | | | [_] | |
| 11 | 10.9% | | | | | |
| | TYPE OF REPORTING PERSON (see Instructions) HC | | | | | |
| CUS | SIP No. 3024 | 451 | 01 13G | | | |
| 1 | NAME OF REP Artisan Pa | ORT rtn | ers Funds, Inc. | | | |
| | | | | | | |

| 2 | CHECK THE (see Insti | | DPRIATE BOX IF A MEMBER OF A GROUP | | [_] |
|----------------------------|---------------------------|----------------|---|------|-----|
| | Not Appli | icable | e | (D) | L_J |
| 3 | SEC USE ON | NLY | | | |
| 4 | CITIZENSHI Wisconsir | | PLACE OF ORGANIZATION | | |
| | NUMBER OF SHARES | | SOLE VOTING POWER None | | |
| BENEFICIALLY OWNED BY EACH | | 6 | SHARED VOTING POWER 10,619,052 | | |
| | PORTING PERSON WITH | 7 | SOLE DISPOSITIVE POWER None | | |
| | | 8 | SHARED DISPOSITIVE POWER 10,619,052 | | |
| 9 | AGGREGATE 10,619,05 | | NT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | |
| 10 | CHECK BOX (see Insti | ructio | | | [_] |
| 11 | PERCENT OF | CLAS | SS REPRESENTED BY AMOUNT IN ROW (9) | | |
| 12 | TYPE OF RE | | | | |
| Ite | m 1(a) Na | ame oi | f Issuer: | | |
| | | FLIR | Systems Inc | | |
| Ite | m 1 (b) Ac | ddress | s of Issuer's Principal Executive Offices: | | |
| | | 27700 | O SW Parkway Avenue, Wilsonville, Oregon 97070 | | |
| Ite | m 2(a) Na | ame of | f Person Filing: | | |
| | | Artis Artis | san Partners Limited Partnership ("APLP") san Investments GP LLC ("Artisan Investments") san Partners Holdings LP ("Artisan Holdings") san Partners Asset Management Inc. ("APAM") san Partners Funds, Inc. ("Artisan Funds") | | |
| Ite | m 2 (b) Ac | ddress | s of Principal Business Office: | | |
| | | | , Artisan Investments, Artisan Holdings, APAM, and Artisa are all located at: | isan | |

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

APLP is a Delaware limited partnership
Artisan Investments is a Delaware limited liability company
Artisan Holdings is a Delaware limited partnership
APAM is a Delaware corporation
Artisan Funds is a Wisconsin corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

302445101

- (d) Artisan Funds is an Investment Company under section 8 of the Investment Company Act.
- (e) APLP is an investment adviser registered under section 203 of the Investment Advisers Act of 1940.
- (g) Artisan Holdings is the sole limited partner of APLP and the sole member of Artisan Investments; Artisan Investments is the general partner of APLP; APAM is the general partner of Artisan Holdings.
- Item 4 Ownership (at December 31, 2014):
 - (a) Amount owned "beneficially" within the meaning of rule 13d-3: 15,327,657
 - (b) Percent of class:

10.9% (based on 140,892,298 shares outstanding as of October $31,\ 2014$)

- (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote:

None

(ii) shared power to vote or to direct the vote:

14,764,963

(iii) sole power to dispose or to direct the disposition of:

None

(iv) shared power to dispose or to direct the disposition
 of:

15,327,657

Item 5 Ownership of Five Percent or Less of a Class:

Not Applicable

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

The shares reported herein have been acquired on behalf of discretionary clients of APLP; as reported herein, APLP holds 15,327,657 shares, including 10,619,052 shares on behalf of Artisan Funds. Persons other than APLP are entitled to receive all dividends from, and proceeds from the sale of, those shares.

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Not Applicable

Item 10 Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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: January 30, 2015

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez*

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

ARTISAN PARTNERS FUNDS, INC.

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez Senior Vice President of Artisan Partners Asset Management Inc. Vice President of Artisan

Investments GP LLC
Chief Financial Officer, Vice
President and Treasurer of
Artisan Partners Funds, Inc.

Exhibit Index

Exhibit 1 Joint Filing Agreement dated January 30, 2015 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, Artisan Partners Asset Management Inc., and Artisan Partners Funds, Inc.

EXHIBIT 1

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: January 30, 2015

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez*

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

ARTISAN PARTNERS FUNDS, INC.

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President of Artisan
Partners Asset Management Inc.
Vice President of Artisan

Investments GP LLC Chief Financial Officer, Vice President and Treasurer of Artisan Partners Funds, Inc.