

AerCap Holdings N.V.  
Form SC 13G  
February 10, 2016

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G  
Under the Securities Exchange Act of 1934  
(Amendment No. \_\_\_\_\_)\*

Aercap Holdings, N.V.  
(Name of Issuer)

Common  
(Title of Class of Securities)

N00985106  
(CUSIP Number)

December 31, 2015  
(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. N00985106

1. Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only).

Donald Smith & Co., Inc.  
13-2807845

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  
(b) ☒

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3. SEC Use Only  
 .....  
 4. Citizenship or Place of Organization  
 A Delaware Corporation

Number of Shares Beneficially Owned by Each Reporting Person With	5. Sole Voting Power	4,303,149 shares
	6. Shared Voting Power	0
	7. Sole Dispositive Power	9,474,010 shares
	8. Shared Dispositive Power	0

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 9,474,010 shares

10. Check if the Aggregate Amount in Row (9) Excludes Certain  
 Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9) 4.80%

12. Type of Reporting Person (See Instructions) IA

1. Names of Reporting Persons.  
 I.R.S. Identification Nos. of above persons (entities  
 only).  
 Donald Smith Long/Short Equities Fund, L.P.  
 27-1481102

2. Check the Appropriate Box if a Member of a Group (See  
 Instructions)

(a)  
 (b) ☒ [X]

3. SEC Use Only  
 .....  
 4. Citizenship or Place of Organization  
 A Delaware Corporation

Number of Shares Beneficially Owned by Each Reporting Person With	5. Sole Voting Power	36,148 shares
	6. Shared Voting Power	0
	7. Sole Dispositive Power	9,474,010 shares
	8. Shared Dispositive Power	0

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 9,474,010 shares

10. Check if the Aggregate Amount in Row (9) Excludes Certain  
 Shares (See Instructions)

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11. Percent of Class Represented by Amount in Row (9) 4.80%  
12. Type of Reporting Person (See Instructions) PN

### Item 1.

- (a) Name of Issuer: AerCap Holdings, N.V.  
(b) Address of Issuer's Principal Executive Offices  
Stationsplein 965  
1117 CE Schiphol  
The Netherlands

### Item 2.

- (a) Name of Person Filing: Donald Smith & Co., Inc.  
(b) Address of Principal Business Office:  
152 West 57th Street  
New York, NY 10019  
(c) Citizenship: A Delaware Corporation  
(d) Title of Class of Securities: Common  
(e) CUSIP Number: N00985106

Item 3. This statement is filed pursuant to Section 240.13d-1(b), and the person filing is an investment advisor registered in accordance with Section 240.13d-1(b)(1)(ii)(E);

### Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 9,474,010  
(b) Percent of class: 4.80%

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- (c) Number of shares as to which the person has:
- (i) SOLE POWER TO VOTE: 4,339,297
- (ii) SHARED POWER TO VOTE: SEE ITEM 6 OF COVER PAGE
- (iii) SOLE POWER TO DISPOSE: 9,474,010
- (iv) SHARED POWER TO DISPOSE: SEE ITEM 8 OF COVER PAGE

Item 5. Ownership of Five Percent or Less is

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [XX].

Item 6. Ownership of More than Five Percent on Behalf of Another Person:  
NOT APPLICABLE

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company  
NOT APPLICABLE

Item 8. Identification and Classification of Members of the Group  
See EXHIBIT A

Item 9. Notice of Dissolution of Group  
NOT APPLICABLE

Item 10. Certification

(a)

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.

February 8, 2016

Date

Donald G. Smith\_\_\_\_\_  
Signature

President\_\_\_\_\_  
Title

SCHEDULE 13G - TO BE INCLUDED IN  
STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)  
RULE 13d-1(f) (1) EXHIBIT A:

Donald Smith & Co., Inc. IA  
Donald Smith Long/Short Equities Fund, L.P. PN

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SCHEDULE 13G - TO BE INCLUDED IN  
STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)  
RULE 13d-1(f) (1) AGREEMENT

The undersigned persons, on February 8, 2016,  
agree and consent to the joint filing on their behalf of this  
Schedule 13G in connection with their beneficial ownership  
of the Common Stock of AerCap Holdings, N.V. at  
December 31, 2015.

Donald Smith & Co., Inc.

By /s/ Donald G. Smith  
Donald G. Smith  
President  
Duly authorized by and on behalf of Donald Smith & Co., Inc.

Donald Smith Long/Short Equities Fund, L.P.

By /s/ Donald G. Smith  
Donald G. Smith  
President  
Duly authorized by and on behalf of  
Donald Smith Long/Short Equities Fund, L.P