

## 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 Failler Garry		2. Date of Event Requiring Statement (Month/Day/Year) 01/03/2011	3. Issuer Name <b>and</b> Ticker or Trading Symbol AerCap Holdings N.V. [AER]	
(Last)	(First) (Middle)		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chief Technical Officer	5. If Amendment, Date Original Filed (Month/Day/Year)
AERCAP HOUSE, STATIONSPLEIN 965				
(Street)				
SCHIPHOL AIRPORT, P7 1117CE				
(City)	(State)	(Zip)		
<b>Table I - Non-Derivative Securities Beneficially Owned</b>				
1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)	

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			
Restricted Stock Unit	02/28/2015 <sup>(2)</sup>	02/28/2015 <sup>(2)</sup>	Ordinary Shares	100,000	\$ (1)	D	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Failler Garry AERCAP HOUSE STATIONSPLEIN 965 SCHIPHOL AIRPORT, P7 1117CE			Chief Technical Officer	

## Signatures

/s/ Garry Failler	04/14/2011
**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).

(1) Each Restricted Stock Unit ("RSU") will convert (i) on a 1-for-1 basis into ordinary shares of the issuer upon vesting, (ii) the cash equivalent, or (iii) a combination of items (i) and (ii).

(2) 50,000 RSUs will vest on this date. The remaining 50,000 RSUs vest on this date subject to performance goals.

**Remarks:**

This form is filed voluntarily. As a foreign private issuer, AerCap is exempted from Section 16 of the Exchange Act by Rule 3a12-3.

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.