FORM 4

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

OMB APPROVAL					
MB Number:	3235-0287				
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ours per response	e 0.5				

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN 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 Ty	pe Response	es)													
Name and Address of Reporting Person * Greene Niall				2. Issuer Name and Ticker or Trading Symbol AerCap Holdings N.V. [AER]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
AERCAP	HOUSE,	O T O C =	3. Date of Earliest Transaction (Month/Day/Year) 12/31/2010							ve title below)		r (specify below)			
(Street) SCHIPHOL AIRPORT, P7 1117CE			4. If Amendment, Date Original Filed(Month/Day/Year)						_X_1	6. Individual or Joint/Group Filing(Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City		(State)	(Zip)	Table I - Non-Derivative Securities Acqu					Acquired,	aired, Disposed of, or Beneficially Owned					
1.Title of S (Instr. 3)	Security	:	Date (Month/Day/Year)	2A. Deer Execution any (Month/I	n Da	ite, if		. 8) (A	Securities Acq) or Disposed of astr. 3, 4 and 5) (A) or mount (D)	of (D) Own Tran)	ed C	ownership of orm: Be over (D) over Indirect (Ir	eneficial wnership
								form di uired, Dispo	ed in this for splays a curr sed of, or Bend evertible secur	ently valid	OMB c			е	
1. Title of Derivative Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transac Code	tion	5. Nun of	Expiration Date (Month/Day/Year) ies ed Expiration Date (Inductive (Month/Day/Year) Seed (Inductive (Induct		7. Title an Amount o Underlyin Securities (Instr. 3 an	f g		f 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form of Derivative Security: Direct (D) or Indirect	(Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Ordinary Share Options	\$ 14.12	12/31/2010		J <u>(1)</u>		1,774		01/01/2014	12/31/2020	Ordinary Shares	1,774	\$ 0	1,774	D	

Reporting Owners

D (Relationships					
Reporting Owner Name / Address		10% Owner	Officer	Other		
Greene Niall AERCAP HOUSE, STATIONSPLEIN 965 SCHIPHOL AIRPORT, P7 1117CE	X					

Signatures

/s/ Niall Greene	01/21/2011
**Signature of Reporting Person	Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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) Grant of Options. 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.