FORM 6 - - K SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

Report of Foreign Private Issuer
Pursuant to Rule 13a - 16 or 15d - 16 under
the Securities Exchange Act of 1934

For the month of February 2010

Commission File Number 001-33159

AERCAP HOLDINGS N.V.

(Translation of Registrant's Name into English)

Stationsplein 965, 1117 CE Schiphol Airport, The Netherlands, +31-20-655-9655

(Address of Principal Executive Office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F

	indicate by check mark whether the registrant rices of will the alimeat reports under cover of Form 40-1.			
	Form 20-F		Form 40-F	
(1):	Indicate by check mark	if the registrant is submitting th	e Form 6-K i	n paper as permitted by Regulation S-T Rule 101(b)
attached ann	Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an annual report to security holders.			
(7)): 🗆	Indicate by check mark	if the registrant is submitting the	ne Form 6-K i	n paper as permitted by Regulation S-T Rule 101(b)
the informati	Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing nation to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.			
	Yes I		No 🗵	
	If "Yes" is marked, ind	icated below the file number as	signed to the 1	registrant in connection with Rule 12g3-2(b): 82 - N/A

Other Events

On February 1, 2010, AerCap Holdings N.V. ("AerCap") (NYSE: AER), Genesis Lease Limited ("Genesis") (NYSE: GLS) and AerCap International Bermuda Limited, a wholly-owned subsidiary of AerCap ("AerCap International"), entered into an amendment ("Amendment No. 1") to amend a previously announced Agreement and Plan of Amalgamation, dated as of September 17, 2009 (the "Amalgamation Agreement"), under which Genesis will amalgamate with AerCap International in a share-for-share transaction (the "Amalgamation"). The resulting amalgamated company will continue as a subsidiary of AerCap. In Amendment No. 1, the parties extended the first date by which the Amalgamation Agreement may be terminated by either party if the Amalgamation has not been consummated from March 17, 2010 to March 31, 2010.

The foregoing summary of Amendment No. 1 does not purport to be complete and is subject to, and qualified in its entirety by, the full text of Amendment No. 1 furnished herewith as Exhibit 99.1, which is incorporated herein by reference.

Exhibits

99.1 Amendment No. 1 to the Amalgamation Agreement, dated as of February 1, 2010

Additional Information

The proposed transaction between Genesis and AerCap will be submitted to the Genesis shareholders for their consideration. In connection with the proposed transaction, AerCap has filed with the SEC a Registration Statement on Form F-4 that includes a preliminary proxy statement of Genesis and a prospectus of AerCap. Genesis will mail the definitive proxy statement/prospectus to its shareholders. Genesis investors are urged to read the definitive proxy statement/prospectus regarding the proposed transaction when it becomes available, as well as any of the relevant documents concerning the proposed transaction and the companies that AerCap or Genesis files with the SEC (including any amendments or supplements to those documents) because these will contain important information. You may obtain copies of all documents filed with the SEC regarding this transaction, free of charge, at the SEC's website (http://www.sec.gov). These documents may also be obtained free of charge from AerCap's website

(http://www.aercap.com) under the heading "Investor Relations" and then under the heading "SEC Filings" or by directing a request to AerCap's Investor Relations at +31 20 655 9658. Copies of Genesis' filings may be obtained free of charge from Genesis' website (http://www.genesislease.com) under the tab "Investor Relations" and then under the heading "SEC Filings" or by directing a request to Genesis' Investor Relations at +1-212-896-1249.

This filing does not constitute an offer to sell or the solicitation of an offer to buy any securities, nor shall there be any sale of securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offering of securities shall be made except by means of a prospectus meeting the requirements of the U.S. Securities Act of 1933, as amended, or an exemption therefrom.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

AERCAP HOLDINGS N.V.

By: /s/ Klaus Heinemann
Name: Klaus Heinemann
Title: Authorized Signatory

Date: February 2, 2010

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EXHIBIT INDEX

99.1 Amendment No. 1 to the Amalgamation Agreement, dated as of February 1, 2010

AMENDMENT NO. 1 TO THE

AGREEMENT AND PLAN OF AMALGAMATION

This Amendment No. 1 to the Agreement and Plan of Amalgamation (this "Amendment"), dated as of February 1, 2010, is entered into by and among GENESIS LEASE LIMITED, a Bermuda exempted company ("Genesis"), AERCAP HOLDINGS N.V., a Netherlands public limited liability company ("AerCap"), and AERCAP INTERNATIONAL BERMUDA LIMITED, a Bermuda exempted company and a wholly-owned subsidiary of AerCap ("Amalgamation Sub"). Capitalized terms used but not otherwise defined herein shall have the meaning ascribed to such terms in the Amalgamation Agreement.

WHEREAS, Genesis, AerCap and Amalgamation Sub are parties to that certain Agreement and Plan of Amalgamation, dated as of September 17, 2009 (the "Amalgamation Agreement"); and

WHEREAS, upon the terms and subject to the conditions of this Amendment, Genesis, AerCap and Amalgamation Sub wish to amend the Amalgamation Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Amendment, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

- 1. <u>Amendment to Section 8.1(c) of the Amalgamation Agreement.</u> <u>Section 8.1(c)</u> of the Amalgamation Agreement is hereby amended by changing the date set forth in clause (i) from March 17, 2010 to March 31, 2010.
- 2. <u>No Other Amendments</u>. Except as expressly set forth herein, this Amendment shall not, by implication or otherwise, alter, modify, amend or in any way affect any of the terms, conditions, obligations or agreements contained in the Amalgamation Agreement, and the Amalgamation Agreement is hereby ratified and confirmed and shall remain in full force and effect in accordance with its terms.
- 3. <u>Effect of Amendment</u>. This Amendment shall form part of the Amalgamation Agreement for all purposes, and each party thereto and hereto shall be bound hereby. This Amendment shall be deemed to be in full force and effect from and after the execution of this Amendment by the parties hereto.
- 4. <u>Governing Law</u>. This Amendment shall be governed in all respects, including as to validity, interpretation and effect, by the Laws of the State of New York, without giving effect to its principles or rules of conflict of laws, <u>provided</u>, <u>however</u>, that the Amalgamation shall also be governed by the applicable provisions of the Companies Act to the extent required thereby.
- 5. Severability. Any term or provision of this Amendment which is invalid or unenforceable in any jurisdiction shall, as to that jurisdiction, be ineffective to the extent of such invalidity or unenforceability and, unless the effect of such invalidity or unenforceability would prevent the parties from realizing the major portion of the economic benefits of the Amalgamation that they currently anticipate obtaining therefrom, shall not render invalid or unenforceable the remaining terms and provisions of this Amendment or affect the validity or enforceability of any of the terms or provisions of this Amendment in any other jurisdiction. If any provision of this Amendment is so broad as to be unenforceable, the provision shall be interpreted to be only so broad as is enforceable.
- 6. <u>Headings</u>. The headings in this Amendment are for purposes of reference only and shall not limit or otherwise the meaning hereof.
- 7. <u>Counterparts</u>. This Amendment may be executed in separate counterparts, each of which shall be considered one and the same agreement and shall become effective when each of the parties has delivered a signed counterpart to the other parties, it being understood that all parties need not sign the same counterpart. Such counterpart executions may be transmitted to the parties by facsimile or electronic transmission, which shall have the full force and effect of an original signature.

[Signature page follows.]

IN WITNESS WHEREOF, Genesis Lease Limited, AerCap Holdings N.V. and AerCap International Bermuda Limited have caused this Amendment to be signed by their respective officers thereunto duly authorized, all as of the date first set forth above.

GENESIS LEASE LIMITED

By: /s/ JOHN McMAHON

Name: John McMahon

Title: CEO

AERCAP HOLDINGS N.V.

By: /s/ KLAUS HEINEMANN

Name: Klaus Heinemann Title: Chief Executive Officer

AERCAP INTERNATIONAL BERMUDA LIMITED

By: /s/ MICHAEL BUTLER

Name: Michael Butler Title: Director

Signature page to Amendment No. 1 to the Agreement and Plan of Amalgamation