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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, DC 20549

**FORM 6 - K**

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

**For the month of April 2012  
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.

Form 20-F                       Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

**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 attached annual report to security holders.

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7) ):

**Note:** Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

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**Other Events**

On April 13, 2012, AerCap Holdings N.V. released a summary of its completed transactions during the first quarter of 2012. This information is attached hereto as Exhibit 99.1.

This Form 6-K is incorporated by reference into the Company's Form F-3 Registration Statement File No. 333-155194 and Form S-8 Registration Statements File Nos. 333-180323, 333-154416 and 333-165839, and related Prospectuses, as such Registration Statements and Prospectuses may be amended from time to time.

**Exhibits**

99.1 AerCap Holdings N.V. Press Release

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SIGNATURES

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/ Aengus Kelly

Name: Aengus Kelly  
Title: Authorized Signatory

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Date: April 13, 2012

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**EXHIBIT INDEX**

99.1 AerCap Holdings N.V. Press Release

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PRESS RELEASE

**AerCap Holdings N.V. Announces Transactions for the First Quarter 2012**

Amsterdam, The Netherlands; April 13, 2012 - AerCap Holdings N.V. ("AerCap," "the Company," NYSE: AER) today announced the completion of the following transactions during the first quarter 2012:

- Signed new lease agreements for nine aircraft and letters of intent for another twelve aircraft,
- Delivered six aircraft under contracted lease agreements,
- Purchased five new aircraft,
- Closed the sale of four aircraft, and
- Signed agreements for \$311 million of debt facilities.

Transaction Overview	First Quarter 2012		
	Owned	Managed	Total
<b>Lease Agreements</b>			
<i>Contracts</i>	9	—	9
<i>Letters of Intent</i>	12	—	12
<b>Deliveries</b>			
<i>Closed</i>	6	—	6
<b>Purchases</b>			
<i>Closed</i>	5	—	5
<i>Letters of Intent</i>	5	—	5
<b>Sales</b>			
<i>Closed</i>	2	2	4
<i>Letters of Intent</i>	1	3	4

**Lease Activities: Contracts Signed for Nine Aircraft — Six Aircraft Delivered**

**New Lease Agreements**

AerCap signed new lease agreements for nine aircraft in the first quarter 2012:

- Four new Boeing 737-800s for American Airlines (U.S.A.),
- One Airbus A319 for Hamburg Airways (Germany),
- One Airbus A320 for Frontier Airlines (U.S.A.),
- One Airbus A321 for Onur Air (Turkey),
- One Airbus A321 for Nordwind (Russia), and
- One Boeing 737-400 for Yamal Airlines (Russia).

The average term of lease agreements and letters of intent for new aircraft signed during the past 12 months was 134 months. The average term of lease agreements and letters of intent for used aircraft in that period was 69 months.

**Deliveries**

AerCap completed six aircraft deliveries under contracted lease agreements in the first quarter:

- Four new Boeing 737-800s to American Airlines (U.S.A.),
- One new Airbus A330 to Virgin Atlantic Airways (United Kingdom), and
- One Airbus A319 to Bangkok Airways (Thailand).

**Purchase Activities: Purchases Closed for Five Aircraft**

AerCap purchased four new Boeing 737-800s and one new Airbus A330 during the first quarter. AerCap also signed letters of intent for the purchase of five new Airbus A330s.

### **Sales Activities: Four Aircraft Sold**

During the first quarter, AerCap closed sales transactions for one Airbus A330 and one Boeing 757-200 from its owned portfolio. AerCap also sold one Boeing 737-300 and one Boeing 737-400 from its managed portfolio.

### **Debt Facilities: \$311 Million Signed in the First Quarter**

AerCap signed agreements for \$311 million of new debt facilities in the first quarter.

### **Portfolio Summary**

As of March 31, 2012, AerCap's portfolio consisted of 350 aircraft that were either owned, on order, under contract, letter of intent or purchase option, or managed.

### **About AerCap**

AerCap is the world's leading independent aircraft leasing company and has one of the youngest fleets in the industry. AerCap has \$9.1 billion of assets on its balance sheet. AerCap is a New York Stock Exchange-listed company (AER) headquartered in The Netherlands with offices in Ireland, the United States, China, Singapore, and the United Arab Emirates.

**This press release may contain forward-looking statements that involve risks and uncertainties. In most cases, you can identify forward-looking statements by terminology such as "may", "should", "expects", "plans", "anticipates", "believes", "estimates", "predicts", "potential" or "continue" or the negative of such terms or similar terminology. Such forward-looking statements are not guarantees of future performance and involve significant assumptions, risks and uncertainties, and actual results may differ materially from those in the forward-looking statements.**

#### **For Media:**

Frauke Oberdieck  
Tel. +31 20 655 9616  
foberdieck@aercap.com

#### **For Investors:**

Peter Wortel  
Tel. +31 20 655 9658  
pwortel@aercap.com

**[www.aercap.com](http://www.aercap.com)**