# 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 September 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.  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) 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 whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes	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):  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes □ No ☒  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		1	,		
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).)  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes   No   If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	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) in the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes  No   If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		Indicate by check mark whether the registrant files or will	file annual reports under cover of Form 20-F or Form 40-F.		
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))  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes No Image:	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) ):  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes  No  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		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)(7) )  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes  No  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	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) ):  Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes No If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		Indicate by check mark if the registrant is submitting the F	Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):		
Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes □ No ☑  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes					
the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes □ No ☒  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.  Yes □ No ☒  If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 — N/A  Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		Indicate by check mark if the registrant is submitting the F	Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7) ):		
Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release					
Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	Other Events  On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		Yes	No ⊠		
On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release		If "Yes" is marked, indicated below the file number assign	ned to the registrant in connection with Rule 12g3-2(b): 82 — N/A		
On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release					
On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	On September 24, 2010, AerCap Holdings N.V. announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release					
aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.  Exhibits  99.1 AerCap Holdings N.V. Press Release	Other	r Events			
99.1 AerCap Holdings N.V. Press Release	99.1 AerCap Holdings N.V. Press Release	aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's				
		Exhib	bits			
2	2	99.1 A	AerCap Holdings N.V. Press Release			
			2			
	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

## EXHIBIT INDEX

99.1 AerCap Holdings N.V. Press Release.

4



#### PRESS RELEASE

### AerCap Closes Second ECGD Guaranteed Bond and Increases ECA Facility with Financing of Five A320 Aircraft

Amsterdam, The Netherlands; September 24, 2010 — AerCap Holdings N.V. ("AerCap", NYSE: AER) today announced that it has closed two transactions for the financing of a total of six Airbus aircraft with the European Export Credit Agencies, led by the Export Credits Guarantee Department ("ECGD") - the United Kingdom's Export Credit Agency.

The first transaction increased AerCap's European Export Credit Agencies facility by \$164 million and completed the financing of five Airbus A320 aircraft, of which three were delivered on long-term leases last week, with the ECA guaranteed debt provided by Credit Agricole CIB.

The second transaction which priced on September 20th, 2010 is related to the closing of the Company's second bond issuance guaranteed by the ECGD. The notes were issued at a fixed rate of 3.215 percent, have a maturity in 2021, and an initial principal amount of \$74 million. This transaction completed the refinancing of an A330-300 aircraft which was previously financed by ECA-guaranteed debt provided by Credit Agricole CIB. The respective aircraft was delivered to AerCap in the fourth quarter of 2009 and has been placed on a long-term lease.

AerCap's Chief Financial Officer Keith Helming commented: "These transactions are an important part of the financing strategy for our Airbus deliveries. The success of these deals was driven largely by the support we received from both our long-term business partners Credit Agricole and ECGD."

This press release does not constitute an offer to sell or the solicitation of an offer to buy any securities. The notes have not been registered under the U.S. Securities Act of 1933 and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements. There shall not be any sale of the notes in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under applicable securities laws, or absent the availability of an exemption from such registration or qualification requirements.

## About AerCap Holdings N.V.

AerCap is the world's leading independent aircraft leasing company. AerCap also provides engine leasing, aircraft management services, aircraft maintenance, repair and overhaul services and aircraft disassemblies. AerCap is headquartered in The Netherlands and has offices in Ireland, the United States, China, Singapore and the United Kingdom.

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",

1

"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.

Contact for Media: Frauke Oberdieck +31 20 655 9616 foberdieck@aercap.com Contact for Investors: Peter Wortel +31 20 655 9658 pwortel@aercap.com