



AERCAP HOLDINGS N.V.

NOTICE OF THE ANNUAL GENERAL MEETING OF SHAREHOLDERS

Notice is hereby given of the annual general meeting of shareholders of AerCap Holdings N.V. (the "Company") to be held on Wednesday 18 May 2011 at 9:30 a.m. (Amsterdam time) at the offices of the Company at AerCap House, Stationsplein 965, 1117 CE Schiphol, The Netherlands.

The agenda for the meeting, containing proposals made by the Board of Directors, is as follows:

1. Opening.
2. Report of the Board of Directors on the financial year 2010 (for discussion).
3. Adoption of the annual accounts for the financial year 2010 (voting item).
4. Reservation and dividend policy (for discussion).
5. Discharge of the directors (*leden raad van bestuur*) in respect of their management during the financial year 2010 (voting item).
6. • Appointment of (a) Mr. Homaïd Abdulla Al Shemmari (voting item) and (b) Mr. Salem Rashed Abdulla Ali Al Noaimi (voting item) as (non-executive) directors for a term of four years.
 - Appointment of (c) Mr. Aengus Kelly (executive director and CEO) as director for a term of four years (voting item).
 - Re-appointment of (d) Mr. Pieter Korteweg (non-executive director and Chairman) as director for an additional term of four years (voting item).
7. Designation of Mr. Keith A. Helming as the person referred to in article 16 paragraph 8 of the articles of association (voting item).
8. Appointment of PricewaterhouseCoopers Accountants N.V. as the registered accountants (voting item).
9. Authorization of the Board of Directors to (a) issue shares, to grant rights to subscribe for shares and (b) to limit or exclude pre-emptive rights (voting item).
10. Authorization of the Board of Directors to repurchase shares (voting item).
11. Amendment to the articles of association and designation of each of the Company's directors and each lawyer working at NautaDutilh N.V. to implement the amendment to the articles of association (voting item).

12. Questions.

13. Closing.

Copies of the agenda for the meeting, stating the subjects to be considered - including the amendment to the Company's articles of association - and the other meeting documents can be obtained free of charge by shareholders and others entitled to attend the meeting and their representatives as of today until the close of the meeting at the offices of the Company and at Stocktrans, a Broadridge Company, 44 W Lancaster Avenue, Ardmore PA 19003, U.S.A. and are also available free of charge during the meeting. Copies of these documents are also available on the Company's website (www.aercap.com).

The Board of Directors has determined that only shareholders who are shareholders on 20 April 2011, close of business (the "registration date") and who are registered in one of the Company's shareholders' registers on that date, or have a valid proxy from such a shareholder, may attend and vote at the annual general meeting of shareholders.

For the convenience of the Company's shareholders, the Company will mail this notice of the annual general meeting of shareholders, the explanation to the agenda, the annual report for the financial year 2010, the annual accounts for the financial year 2010 and the draft amendment of the Company's articles of association together with a proxy form (the "proxy materials") to shareholders who are registered in the Company's shareholders' registers and to beneficial holders of the Company's shares who hold their shares indirectly through the Depositary Trust Company (collectively, the "investors") who owned their registered or beneficial shares (collectively, the "shares") on 25 March 2011. This mailing will allow investors more time to read and consider the proxy materials. However, such investors' votes will not count unless they remain investors on the registration date, 20 April 2011.

The Company will make a second distribution of the proxy materials on the registration date, 20 April 2011, to investors who acquired their shares after 25 March 2011 to ensure that all investors who own the Company's shares on 20 April 2011 have an opportunity to vote.

In both cases, investors who receive the proxy materials should vote promptly after they receive the proxy materials in accordance with the voting instructions contained in the proxy materials to allow sufficient time for the proxies to be received and tabulated.

Investors who beneficially hold shares in the Company through the Depositary

Trust Company wishing to exercise their meeting rights by submitting a proxy must return the proxy contained in the proxy materials in accordance with the instructions set forth therein no later than 5:00 p.m. (New York time) on 11 May 2011. Investors who beneficially hold shares in the Company through the Depository Trust Company wishing to exercise their meeting rights in person must (i) notify the Company by submitting their name and number of beneficial shares through the Company's e-mail address at shareholdersmeeting@aercap.com no later than 5:00 p.m. (New York time) on 11 May 2011 and (ii) provide the Company with appropriate evidence of ownership of and authority to vote the shares no later than 11 May 2011.

Investors who are registered in the Company's shareholders' registers wishing to exercise their meeting rights, in person or by proxy, must (i) notify the Company by submitting their name and number of registered shares through the Company's e-mail address at shareholdersmeeting@aercap.com by no later than 5:00 p.m. (Amsterdam time) on 11 May 2011 or, as the case may be, use (ii) the proxy form that can be obtained from the Company. The proxy forms need to be received by the Company no later than 5:00 p.m. (Amsterdam time) on 11 May 2011.

Access to the annual meeting of shareholders by an investor or proxy holder is permitted after verification of personal identification.

For further information please see www.aercap.com.

Requests for information can also be sent to:
Shareholdersmeeting@aercap.com

The Board of Directors

29 March 2011