

ADVANCED ENERGY INDUSTRIES INC

Form 424B3

July 12, 2002

**PROSPECTUS SUPPLEMENT DATED JULY 12, 2002  
TO PROSPECTUS DATED MAY 6, 2002**

**Filed Pursuant to Rule 424(b)(3)  
Registration No. 333-72748  
CUSIP No. 007973 AC4**

**ADVANCED ENERGY INDUSTRIES, INC.  
\$125,000,000**

**5.00% Convertible Subordinated Notes due September 1, 2006 and  
Shares of Common Stock Issuable Upon Conversion of the Notes**

This prospectus supplement supplements information contained in the prospectus dated May 6, 2002 relating to the potential sale from time to time of up to \$125,000,000 aggregate amount of notes and the common stock into which the notes are convertible. This prospectus supplement is not complete without, and may not be delivered or utilized except in connection with, the prospectus, including any amendments or supplements to it.

The following table supplements the information set forth in the prospectus under the caption *Selling Security Holders* with respect to the selling holders and the respective principal amounts of notes beneficially owned by the selling holders that may be offered pursuant to the prospectus, as amended or supplemented:

| Name               | Aggregate<br>Principal<br>Amount of<br>Notes<br>Beneficially<br>Owned and Offered | Percentage<br>Of<br>Notes<br>Outstanding | Number<br>of Shares of<br>Common<br>Stock<br>Offered |
|--------------------|---|--|--|
| HFR CA Select Fund | 200,000   | *  | 6,705  |

None of the above selling holders nor any of their affiliates, officers, directors or principal equity holders has held any position or has had any material relationship with us within the past three years.