



7840 MONTGOMERY ROAD  
CINCINNATI, OH 45236

**VOTE BY INTERNET - [www.proxyvote.com](http://www.proxyvote.com)**

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 P.M. Eastern Time on May 11, 2008. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

**ELECTRONIC DELIVERY OF FUTURE STOCKHOLDER COMMUNICATIONS**

If you would like to reduce the costs incurred by LCA-Vision Inc. in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access stockholder communications electronically in future years.

**VOTE BY PHONE - 1-800-690-6903**

Use any touch-tone telephone to transmit your voting instructions up until 11:59 P.M. Eastern Time on May 11, 2008. Have your proxy card in hand when you call and then follow the instructions.

**VOTE BY MAIL**

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to LCA-Vision Inc., c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

LCAV51

KEEP THIS PORTION FOR YOUR RECORDS  
DETACH AND RETURN THIS PORTION ONLY

**THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.**

**LCA-VISION INC.**

The Board of Directors recommends a FOR vote on each proposal.

**Vote on Directors**

1. ELECTION OF DIRECTORS

For All Withhold For All Except

To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below.

\_\_\_\_\_

**Nominees:**

- 01) WILLIAM F. BAHL      04) STEVEN C. STRAUS
- 02) JOHN H. GUTFREUND    05) E. ANTHONY WOODS
- 03) JOHN C. HASSAN

**Vote on Proposal**

For    Against    Abstain

2. The ratification of Ernst & Young LLP as auditors of the Company for the fiscal year ending December 31, 2008.

3. Transaction of such other business as may properly come before the meeting or any adjournment thereof.

**ALL FORMER PROXIES ARE HEREBY REVOKED.**

(Please sign exactly as your name appears hereon. All joint owners should sign. When signing in a fiduciary capacity or as a corporate officer, please give full title as such.)

\_\_\_\_\_  
Signature [PLEASE SIGN WITHIN BOX]      Date

\_\_\_\_\_  
Signature (Joint Owners)      Date

**Important Notice Regarding Internet Availability of Proxy Materials for the Annual Meeting:**  
The Notice and Proxy Statement and Annual Report are available at [www.proxyvote.com](http://www.proxyvote.com).

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**PROXY  
LCA-VISION INC.**

**7840 Montgomery Road  
Cincinnati, OH 45236**

**THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS.**

The undersigned hereby appoints Steven C. Straus and Alan H. Buckey, and each of them with full power of substitution, as proxies to vote as designated on the reverse side, for and in the name of the undersigned, all shares of stock of LCA-Vision Inc. which the undersigned is entitled to vote at the Annual Meeting of the Stockholders of said Company scheduled to be held May 12, 2008 at 10:00 a.m. ET at The Queen City Club, 331 East Fourth Street, Cincinnati, Ohio 45202 or at any adjournment or recess thereof. A properly signed proxy that gives no direction will be voted in accordance with the recommendation of the Board of Directors or, if there is none, in accordance with their best judgment.

**This proxy, when properly executed, will be voted in the manner directed herein by the undersigned shareholder. If no direction is made, this proxy will be voted FOR the election of Directors.**