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AEROVIRONMENT, INC.
PROXY FOR ANNUAL MEETING OF STOCKHOLDERS

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned, a stockholder of AeroVironment, Inc., a Delaware corporation (the "Company"), hereby nominates, constitutes and appoints Timothy E. Conver and Stephen C. Wright, or either one of them, as proxy of the undersigned, each with full power of substitution, to attend, vote and act for the undersigned at the annual meeting of stockholders of the Company, to be held on September 23, 2009, and any postponements or adjournments thereof, and in connection therewith, to vote and represent all of the shares of the Company which the undersigned would be entitled to vote with the same effect as if the undersigned were present, as follows:

(Continued and to be signed on the reverse side)

ANNUAL MEETING OF STOCKHOLDERS OF
AEROVIRONMENT, INC.

September 23, 2009

NOTICE OF INTERNET AVAILABILITY OF PROXY MATERIAL:

The Notice of Meeting, Proxy Statement, Proxy Card
are available at <http://investor.avinc.com>

Please sign, date and mail
your proxy card in the
envelope provided as soon
as possible.

↓ Please detach along perforated line and mail in the envelope provided. ↓

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A VOTE FOR ALL PROPOSALS IS RECOMMENDED BY THE BOARD OF DIRECTORS:
PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE ☒

Proposal 1. To elect the board of directors' two nominees as directors:

☐ FOR ALL NOMINEES
☐ WITHHOLD AUTHORITY
FOR ALL NOMINEES
☐ FOR ALL EXCEPT
(See instructions below)

NOMINEES:

☐ Timothy E. Conver
☐ Arnold L. Fishman

INSTRUCTION: To withhold authority to vote for any individual nominee(s), mark "FOR ALL EXCEPT" and fill in the circle next to each nominee you wish to withhold, as shown here: ●

To change the address on your account, please check the box at right and indicate your new address in the address space above. Please note that changes to the registered name(s) on the account may not be submitted via this method. ☐

Proposal 2. To ratify the selection of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending April 30, 2010:

FOR AGAINST ABSTAIN
☐ ☐ ☐

The undersigned hereby confer(s) upon the proxies and each of them discretionary authority with respect to the election of directors in the event that any of the above nominees is unable or unwilling to serve.

The undersigned hereby revokes any other proxy to vote at the annual meeting, and hereby ratifies and confirms all that said attorneys and proxies, and each of them, may lawfully do by virtue hereof. With respect to matters not known at the time of the solicitation hereof, said proxies are authorized to vote in accordance with their best judgment.

THIS PROXY WILL BE VOTED IN ACCORDANCE WITH THE INSTRUCTIONS SET FORTH ABOVE OR, TO THE EXTENT NO CONTRARY DIRECTION IS INDICATED, WILL BE TREATED AS A GRANT OF AUTHORITY TO VOTE FOR ALL PROPOSALS. IF ANY OTHER BUSINESS IS PRESENTED AT THE ANNUAL MEETING, THIS PROXY CONFERS AUTHORITY TO AND SHALL BE VOTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROXIES.

The undersigned acknowledges receipt of a copy of the notice of annual meeting and accompanying proxy statement dated August 19, 2009 relating to the annual meeting.

MARK "X" HERE IF YOU PLAN TO ATTEND THE MEETING. ☐

Signature of Stockholder

Date:

Signature of Stockholder

Date:

Note: Please sign exactly as your name or names appear on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, attorney, trustee or guardian, please give full title as such. If the signer is a corporation, please sign full corporate name by duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by authorized person.