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January 5, 2007

VIA EDGAR

Max A. Webb
Assistant Director
Division of Corporation Finance
Securities and Exchange Commission
100 F Street, N.E., Mail Stop 3561
Washington, D.C. 20549

**Re: AeroVironment, Inc.
Registration Statement on Form S-1
Filed September 28, 2006
File No. 333-137658**

Dear Mr. Webb:

AeroVironment, Inc. is submitting (by EDGAR) Amendment No. 6 to its Registration Statement on Form S-1 (the "**Amendment**"). Courtesy copies of the Amendment (specifically marked to show the changes thereto) are being submitted to the Staff by hand delivery.

Any comments or questions regarding the Amendment should be directed to the undersigned at (619) 238-2943. Thank you in advance for your cooperation in connection with this matter.

Very truly yours,

/s/ Brian Wolfe
Brian Wolfe

cc: Craig M. Gamer, Esq., Latham & Watkins LLP
Stuart L. Hindle, AeroVironment, Inc.