FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* EARHART ALAN L					MC	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								5. Relationship of Report (Check all applicable) X Director Officer (give title		ng Person(s) to Issuer 10% Owner Other (specif		wner		
(Last) 6409 GU	`	rst) (E MINES ROAD	Middle	e)		3. Date of Earliest Transaction (Month/Day/Year) 02/22/2007									w)		below)			
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
SAN JOS	SE CA	A 9	9512	0										X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(St	tate) (Zip)											Person						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yes			rear) it	Execution Date,			3. Transaction Code (Instr. 8)					Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) or (D)	Price	Following (Instr. 4) (Instr. 4 Transaction(s) (Instr. 3 and 4)			(instr. 4)			
Common Stock 02/22/200			07	7		M		10,000	A	\$7.5		0,000		D						
Common Stock 02/22/2003			07				S		10,000	D	\$13.65	5(1)	0		D					
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an		4. Transa Code (I 8)		of Der Sec Acc (A) Dis of (posed D) str. 3, 4	Expiration Date (Month/Day/Year) irities ired r osed 3. 3, 4		of s ng e (Instr. 3	8. Price of Derivativ Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares							
Non- Qualified Stock Option (right to buy)	\$7.5	02/22/2007			M			10,000	09/17/2	2005	09/17/2014	Common Stock	10,000	\$13.655	20,000		D			

Explanation of Responses:

1. Average price per share

By: Saria Tseng For: Alan
Farhart

02/23/2007

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

^{*} If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

^{**} Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

LIMITED POWER OF ATTORNEY FOR MONOLITHIC POWER SYSTEMS SECTION 16(a) FILINGS

Know all by these presents, that the undersigned, Alan Earhart, hereby constitutes and appoints each of Michael Hsing, Rick Neely, and Saria Tseng, signing singly, the undersigneds true and lawful attorney-infact to:

- (1) Complete and execute for and on behalf of the undersigned, in the undersigneds capacity as an officer, director and/or stockholder of Monolithic Power Systems, Inc. (the "Company"), Forms ID, 3, 4, and 5 and other forms and all amendments thereto as such attorney-in-fact shall in his or her discretion determine to be required or advisable in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, or any successor laws and regulations, as consequence of the undersigneds ownership, acquisition or disposition of securities of the Company;
- (2) Do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such forms or amendment thereto and timely file such forms with the United States Securities and Exchange Commission (the "SEC") and any stock exchange or similar authority; and
- (3) Take any other action of any type whatsoever which, in the opinion of such attorney-in-fact, may be necessary or desirable in connection with the foregoing authority, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve. The undersigned hereby grants to each such attorney-in-fact full power

and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-facts substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigneds responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms ID, 3, 4, and 5 with respect to the undersigneds holdings of and transaction in securities of the Company, unless earlier revoked by the undersigned in a signed writing delivered to the Company and the foregoing attorneys-in-fact. This Power of Attorney may be filed with the SEC as a confirming statement of the authority granted herein.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this day of July 13, 2006.

Alan Ea:	rha:	rt	
Print Name	of	Reporting	Person
/s/Alan Signature	Ea:	rhart	