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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									eck all appl	licable) or		erson(s) to Issuer 10% Owner Other (specify		
(Last) 6409 GU	ast) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 08/20/2007									Officer (give title below)		below)	specify	
(Street)	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person									
SAN JOS			95120												Form filed by More than One Reporting Person					
(City)	(Si		Zip)													_				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/						Execution Date,			3. Transaction Code (Instr. 8) 4. Securi Disposed and 5)						Securit Benefic Owned	ties Fo cially (D) I Ind		n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A)		Price			(Instr. 4)		(Instr. 4)	
Common Stock 08/20/20						007			M		15,000		1 9	\$12.1	6 15	15,000		D		
Common Stock 08/20/20					2007	007		S		15,00	00 1)	\$19.5	;	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)	if any	emed on Date, /Day/Year)	4. Transaction Code (Instr 8)		on of		6. Date Exercisa Expiration Date (Month/Day/Year		•	Amoun Securiti Underly Derivati	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	or	ount mber ires						
Non- Qualified Stock Option (right to buy)	\$12.16	08/20/2007			M			15,000	06/21/2001	7 00	6/21/2016	Commo	15,	,000,	\$0	0		D		

Explanation of Responses:

By: Rick Neely For: Alan 08/21/2007

** 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).