FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL											
OMB Number: 3235-0											
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houre por recoones:	0.5										

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]										olicable) ctor	or 10% O	
` '						3. Date of Earliest Transaction (Month/Day/Year) 08/07/2008										er (give title w)	Other below	(specify)
	4. If	Amen	dme	nt, Dat	e of Origin	al F	iled (Month	/Day/Year	-)	6. Indi	vidual o	or Joint/Group	p Filing (Check	Applicable				
(Street) LOS AL	(Street) LOS ALTOS CA 94024												X		Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(Si	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/	Year) i	Execu if any	A. Deemed execution Date, fany Month/Day/Year)		3. Transaction Code (Instr. 8)			ties Acquired (A) I Of (D) (Instr. 3,		and Secu Bene Own			6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common	Stock			08/07/20	800				M		2,100	A	\$7	.51		2,100	D	
Common	Stock			08/07/20	800				S		2,100	D	\$2	\$26.19		0	D	
Common	Stock			08/07/20	800				M		9,900	A	\$7	\$7.51		9,900	D	
Common Stock 0			08/07/20	800				S		9,900	D	\$26	2534	534 0		D		
Common Stock 08/07/2				08/07/20	800	18			M		2,900	A	\$7.51			2,900	D	
Common Stock 08/07/2			08/07/20	800	8			S		2,900	D	\$26	\$26.1503		0	D		
Common Stock 08/07/20			800	08			M		100	A	\$7	.51		100	D			
Common Stock 08/07/200			800	18		S		100	D	\$2	\$26.14		0	D				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Security or Exercise (Month/Day/Year) if any				Deemed ution Date,	4. Transa	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		nber ivative urities juired or posed D)	6. Date Exerci Expiration Da (Month/Day/Y		isable and	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisab		Expiration Date	Title	Amour or Number of Shares	er				
Non- Qualified Stock Option (right to buy)	\$7.51	08/07/2008			М			2,100	06/02/200	6	06/02/2015	Common Stock	2,100		\$0	12,900	D	
Non- Qualified Stock Option (right to buy)	\$7.51	08/07/2008			М			9,900	06/02/200	6	06/02/2015	Common Stock	9,900		\$0	3,000	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)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (In	Number		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative 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 Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$7.51	08/07/2008		M			2,900	06/02/2006	06/02/2015	Common Stock	2,900	\$0	100	D	
Non- Qualified Stock Option (right to buy)	\$7.51	08/07/2008		M			100	06/02/2006	06/02/2015	Common Stock	100	\$0	0	D	

Explanation of Responses:

By: Adriana Chiocchi For: Alan Earhart

08/08/2008

** 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).