FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 [*] Moyer James C						2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]							ieckallapp X Direc	orting Person(s) to Issuer 10% Owner		owner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 12/27/2007							X Officer (give title Other (specify below) below) Chief IC Design Engineer				
(Street) SAN JOSE CA 95120 (City) (State) (Zip)					4. 11	lf Amendment, Dat)	 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person 									
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				2. Transaction Date (Month/Day/Yea	ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transac Code (Ir 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, and 5)				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	ct I	7. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(11100.4)			
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$21.	.96	209,	560	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		200	D	\$21.	.98	209,	360	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$22.	.01	209,	260	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		500	D	\$22.	.04	208,	760	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$22.	.08	208,	660	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$22.	.09	208,	560	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$22.	.12	208,	460	I		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		300	D	\$22.	.14	208,	160	Ι		by Moyer FamilyTrust
Common Stock				12/27/2007	7		S ⁽¹⁾		100	D	\$22.	.16	208,	060	I		by Moyer FamilyTrust
Common Stock													890,	569	D		
Common Stock													518,	504	I		By Jointly w/Spouse
		Т	able			Securities Acc calls, warrant							Owned				
1. Title of 2.		3. Transaction	34	Deemed	4.	5. Numbe	er 6. Dat	e Exe	rcisable and	7. Title	and		8. Price	9. Numb	per of 10.		11. Nature

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date,	Transaction Code (Instr. 8)				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)	derivative Securities Beneficially Owned	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

By: Rick Neely For: James12/27/2007Moyer12/27/2007

** Signature of Reporting Person Date

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

* 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).

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.