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

	ess of Reporting Per	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC							lationship of Rep ck all applicable)	orting Person(s) to Issuer			
Moyer James C				MONOLITHIC MPWR	J POW	<u>/EK</u>	SYSIE		X		10)% Owner		
(Last) 6409 GUADAL	(First) (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 10/30/2007							Officer (give to below) Chief IC		ther (specify elow) neer	
(Ctro at)	4. If Amendment, Da	ate of Orig	inal F	Filed (Month/E	′ I	6. Individual or Joint/Group Filing (Check Applicable Line)								
(Street) SAN JOSE CA 95120						d by One Reporting Person								
								Form filed by More than One Reporting Person						
(City)	(State)	(Zip)												
4 Title of Commit		able I	- Non-Deriva	2A. Deemed	Acquire	d, D	1					6 Ournarchin	7. Nature of	
1. Title of Security (Instr. 3)			Date (Month/Day/Yea	Execution Date,	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			S	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Beneficial Ownership (Instr. 4)	
					Code	v	Amount	(A) or (D)	Price		Reported Fransaction(s) Instr. 3 and 4)	(11150: 4)	(msu. 4)	
Common Stock			10/30/2007	,	S ⁽¹⁾		200	D	\$23.1	5	240,210	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		300	D	\$23.1	6	239,910	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		500	D	\$23.1	7	239,410	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		200	D	\$23.1	8	239,210	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.1	9	239,110	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.2	2	239,010	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.2	1	238,910	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.2	2	238,810	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		600	D	\$23.2	5	238,210	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.2	6	238,110	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.2	7	238,010	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		200	D	\$23.2	8	237,810	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	•	S ⁽¹⁾		100	D	\$23.2	9	237,710	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		30	D	\$23.3	3	237,680	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		70	D	\$23.3	1	237,610	I	by Moyer FamilyTrust	
Common Stock			10/30/2007	,	S ⁽¹⁾		100	D	\$23.3	4	237,510	I	by Moyer FamilyTrust	

		Tabl	e I - Non-Deriv	ative	Secu	ırities <i>l</i>	Acquir	ed, Di	isposed o	f, or B	eneficia	ally Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Y	ear) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
							Code V		Amount	(A) or (D) Price		Followin Reported Transact (Instr. 3	ion(s)	(Instr. 4)		(Instr. 4)	
Common Stock			10/30/200	10/30/2007			S ⁽¹⁾		100	D	\$23.35	237,	410		I	by Moyer FamilyTrust	
Common Stock			10/30/200)7			S ⁽¹⁾		100	D	\$23.38	237,310			I	by Moyer FamilyTrus	
Common Stock												890,569			D		
Common Stock												518,504			I	By Jointly w/Spouse	
		Та	ble II - Derivat (e.g., p						oosed of, convertib			y Owned					
1. Title of Derivative Security (Instr. 3)	Conversion Date Ex or Exercise (Month/Day/Year) if a		3A. Deemed Execution Date, if any (Month/Day/Year)	Code	5. Number of Derivative Securitie Acquired (A) or Disposec of (D) (Instr. 3, and 5)		Expiration (Month/Day s			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numl derivati Securiti Benefic Owned Followi Reporte Transac (Instr. 4	ve ies ially ng ed ction(s)	10. Ownersh Form: Direct (E or Indire (I) (Instr 4)	Beneficial Ownership ect (Instr. 4)	
				Code	· v	(A) (D	Date) Exe	e rcisable	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: James Moyer

10/31/2007

** 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.

 $^{^{\}star}$ 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).