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 Addr	ess of Reporting Per	son*		2. Issuer Name and				MO IN			Relationship of Rep	orting Person(s) to Issuer	
Moyer James C			MONOLITHIC POWER SYSTEMS INC [MPWR]							eck all applicable) X Director	10	0% Owner		
(Last) 6409 GUADAL	(First)	(Midd	le)	3. Date of Earliest To 01/03/2008	ransaction	(Mor	nth/Day/Year)			X Officer (give t below) Chief IC		ther (specify elow) neer	
(0)		4. If Amendment, Da	ate of Orig	inal F	Filed (Month/E	′ I		ndividual or Joint/G	Froup Filing (Ch	eck Applicable				
(Street) SAN JOSE	CA	9512	20							Line	•	One Reporting	Person	
											Form filed by Person	More than One	Reporting	
(City)	(State)	(Zip)							1 51551					
	Т	able I	- Non-Deriva	tive Securities A	Acquire	d, D	isposed o	f, or B	enefic	cial	ly Owned			
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	ZA. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			r	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)	,	(11151111 4)	
Common Stock			01/03/2008		S ⁽¹⁾		100	D	\$20.6	59	207,960	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		150	D	\$20.7	72	207,810	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		200	D	\$20.7	75	207,610	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.7	76	207,510	I	by Moyer FamilyTrust	
Common Stock			01/03/2008		S ⁽¹⁾		300	D	\$20.8	84	207,210	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		200	D	\$20.8	35	207,010	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.9	91	206,910	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		200	D	\$20.9	92	206,710	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.9	93	206,610	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.9	94	206,510	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		200	D	\$20.9	96	206,310	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.9	98	206,210	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		100	D	\$20.9	99	206,110	I	by Moyer FamilyTrust	
Common Stock			01/03/2008	:	S ⁽¹⁾		600	D	\$21	!	205,510	I	by Moyer FamilyTrust	
Common Stock			01/03/2008		S ⁽¹⁾		700	D	\$21.0	01	204,810	I	by Moyer FamilyTrust	
Common Stock			01/03/2008		S ⁽¹⁾		5,550	D	\$21.0)2	199,260	I	by Moyer FamilyTrust	
						•		•			<u> </u>		1	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution I if any (Month/Day	Date,	3. Transaction Code (Instr. 8) 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 as	on(s)	(Instr. 4)	(instr. 4)
Common Stock	01/03/2008			S ⁽¹⁾		200	D	\$21.03	199,0	060	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		200	D	\$21.04	198,8	360	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		200	D	\$21.05	198,6	560	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.07	198,5	560	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.09	198,4	160	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.17	198,3	360	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.23	198,2	260	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.25	198,1	160	I	by Moyer FamilyTrust
Common Stock	01/03/2008			S ⁽¹⁾		100	D	\$21.27	198,0	060	I	by Moyer FamilyTrust
Common Stock									890,5	569	D	
Common Stock									518,5	504	I	By Jointly w/Spouse
Tab	le II - Derivative (e.g., puts								y Owned			
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security		nsaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration D (Month/Day/		Date			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e Owners s Form: lily Direct or Indi g (I) (Inst	Beneficial Ownership rect (Instr. 4)
	Co	de V (A	A) (D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

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

By: Rick Neely For: James Moyer

01/03/2008

** 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.

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