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]									(Ch	eck all app X Direc	blicable)	r 10'		% Owner	
(Last) 79 GREA	(Fir AT OAKS B	/liddle)	3. Date of Earliest Transaction (Month/Day/Year) 06/25/2013								Officer (give titl below)			ier (specify ow)					
(Street) SAN JOS	E CA	5119	4. If Ar	mend	lment,	Date of Original Filed (Month/Day/Year)						Line	 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting 						
(City)	(City) (State) (Zip)													Person					
		Tabl	e I - Non-Deriv	ative S	ecu	rities	s Acq	uireo	d, Di	sposed	of, c	or Bene	ficial	ly Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	Execution D)ate,	3. Transaction Code (Instr. 8)		Dis	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an				Beneficially Owned		6. Ownersh Form: Direc (D) or Indirect (I)		Indirect Beneficial Ownership	
							Code	v	Am	nount d	(A) or (D)	r Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)	
Common	Stock	06/25/2013			S ⁽¹⁾		3	3,500 D		\$23.7241(2)		417,783				by Moyer FamilyTrust			
Common Stock			06/26/2013			S ⁽¹⁾		3	3,500	D	D \$23.9908 ⁽³) 414,283		Ι		by Moyer FamilyTrust		
Common Stock														1,000	5,301		D		
				uts, cal		warra	ants, o	optic	ons,	converti	ble	securiti	es)						
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)	4. Transact Code (In 8) Code		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed . 3, 4	Expira (Mont	ation I h/Day	Exercisable and on Date Day/Year) Expiration ble Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		8. Price of Derivative Security (Instr. 5)	derivative C Securities F Beneficially C Owned C Following (10. Ownersh Form: Direct (E or Indire (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)	

Explanation of Responses:

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

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$23.67 to \$23.81. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
 The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$23.94 to \$24.09. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: James	06/27/2013
Moyer	00/2//2013

** 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.