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

Name and Address of Reporting Person* Moyer James C				<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								(Check all applicable) X Director			nting Person(s) to Issuer 10% Owner le Other (specify		
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 03/06/2012								Officer (give title Other (spe below) below)				` '	
(Street) SAN JOS (City)			5120 Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								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																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				2A. 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)			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 Transact (Instr. 3	ion(s)			(msu. 4)	
Common Stock 03/06/2011				12	2			S ⁽¹⁾		200	D	\$17.76	482,383		I		by Moyer FamilyTrust	
Common Stock													1,007,309		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)	erivative conversion or Exercise (Month/Day/Year) price of Derivative Security Conversion or Exercise (Month/Day/Year) Execution Date, if any (Month/Day/Year) Security Security			Cod	saction e (Instr.	of Deri Secu Acq (A) o Disp of (I	oosed 0) tr. 3, 4	Expiration Date (Month/Day/Year) Date Expiration			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of Title Shares		8. Price of Derivative Security Security (Instr. 5) Enefic Owned Following Reporte Transac (Instr. 4)		ive Owners ies Form: Direct or Indi ing (I) (Insteed ction(s)		Beneficial Ownership ect (Instr. 4)	

Explanation of Responses:

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

By: Saria Tseng For: James Mover

03/07/2012

** 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).