Moyer James C Form 4 July 12, 2012

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

OMB 3235-0287 Number:

Expires: January 31, 2005

Estimated average burden hours per response... 0.5

5. Relationship of Reporting Person(s) to

Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

2. Issuer Name and Ticker or Trading

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

Moyer James C Issuer Symbol MONOLITHIC POWER SYSTEMS (Check all applicable) INC [MPWR] X_ Director (Last) (First) (Middle) 3. Date of Earliest Transaction 10% Owner Officer (give title Other (specify (Month/Day/Year) below) 79 GREAT OAKS BLVD 07/11/2012 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SAN JOSE, CA 95119 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 2. Transaction Date 2A. Deemed 7. Nature of 1.Title of 3. 4. Securities Acquired 5. Amount of 6. Execution Date, if Security (Month/Day/Year) Transaction(A) or Disposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial Direct (D) (Month/Day/Year) (Instr. 8) Owned Ownership Following or Indirect (Instr. 4) Reported (I) (A) Transaction(s) (Instr. 4) or (Instr. 3 and 4) Code V Amount (D) Price Common by Moyer 07/11/2012 S 600 (1) D I 19.72 475,283 Stock FamilyTrust (2) \$ Common by Moyer 07/12/2012 S 600 (1) D 19.41 474,683 I Stock FamilyTrust (3) Common 1.007,151 D Stock

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

Persons who respond to the collection of information contained in this form are not (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onNumber	Expiration D	ate	Amoun	nt of	Derivative	Deriv
or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)	Bene
Derivative				Securities			(Instr. 3	3 and 4)		Owne
Security				Acquired						Follo
				(A) or						Repo
				Disposed						Trans
				of (D)						(Instr
				(Instr. 3,						
				4, and 5)						
								Amount		
					Date	Expiration				
					Exercisable	Date				
			Code V	(A) (D)						
	Conversion or Exercise Price of Derivative	Conversion (Month/Day/Year) or Exercise Price of Derivative	Conversion (Month/Day/Year) Execution Date, if or Exercise any Price of (Month/Day/Year) Derivative	Conversion (Month/Day/Year) Execution Date, if Transaction or Exercise any Code Price of (Month/Day/Year) (Instr. 8) Derivative Security	Conversion (Month/Day/Year) Execution Date, if TransactionNumber or Exercise any Code of Price of (Month/Day/Year) (Instr. 8) Derivative Security Acquired (A) or Disposed of (D) (Instr. 3,	Conversion or Exercise any Code of (Month/Day/Pear) Price of (Month/Day/Year) Derivative Security Code of (Month/Day/Pear) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Exercisable	Conversion (Month/Day/Year) Execution Date, if any Code of (Month/Day/Year) Price of (Month/Day/Year) (Instr. 8) Derivative Security Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Expiration Date Expiration Date Code of (Month/Day/Year) (Instr. 8) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Conversion (Month/Day/Year) Execution Date, if TransactionNumber Expiration Date Amour or Exercise any Code of (Month/Day/Year) Underly Price of (Month/Day/Year) (Instr. 8) Derivative Securities (Instr. 5) Derivative Securities (Instr. 7) Derivative (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Expiration Date Amour Code of (Month/Day/Year) Underly Securities (Instr. 7) Date Expiration Exercisable Date Title	Conversion (Month/Day/Year) Execution Date, if any Code of (Month/Day/Year) Underlying Code of (Month/Day/Year) Underlying Securities Price of (Month/Day/Year) (Instr. 8) Derivative Security Securities Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Expiration Date Amount of (Month/Day/Year) Underlying Securities Securities (Instr. 3 and 4) Amount of (Month/Day/Year) Underlying Securities Securities Faction Date Expiration Date Amount of (Month/Day/Year) Underlying Securities Securities Faction Date Expiration Date Expiration Date Or Number of	Conversion of Month/Day/Year)

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Moyer James C							
79 GREAT OAKS BLVD	X						
SAN JOSE, CA 95119							

Signatures

By: Saria Tseng For: James
Moyer

07/12/2012

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (1) In accordance with the reporting person's 10b5-1 trading plan.
- (2) Price is the weighted average selling price of all sales by the reporting person on the transaction date. The range of selling prices was \$19.62 to \$19.75 per share.
- (3) Price is the weighted average selling price of all sales by the reporting person on the transaction date. The range of selling prices was \$18.96 to \$19.50 per share.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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