Moyer James C Form 4 May 12, 2010

## FORM 4

#### **OMB APPROVAL**

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

**OMB** 3235-0287 Number:

Check this box if no longer subject to Section 16.

Washington, D.C. 20549

January 31, Expires: 2005

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Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF Estimated average **SECURITIES** 

burden hours per response...

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			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
	MONOLITHIC POV INC [MPWR]		MONOLITHIC POWER SYSTEMS INC [MPWR]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	X Director 10% OwnerX Officer (give title Other (specify below)			
6409 GUADALUPE MINES ROAD			05/11/2010	Chief IC Design Engineer			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
SAN JOSE, CA	A 95120		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State)	(Zip) Ta	ble I - Non	-Derivativ	e Sec	curities Acqu	ired, Disposed o	of, or Benefic	ially Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Security oner Dispose (Instr. 3,	sed of	` '	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	05/11/2010		S	167 <u>(1)</u>	D	\$ 21.7681	896,402	D	
Common Stock							483,383	I	by Moyer FamilyTrust

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

### Edgar Filing: Moyer James C - Form 4

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration D	ate	Amoun	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3	3 and 4)		Own
	Security				Acquired						Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A manuat		
									Amount		
						Date	Expiration		Or Number		
						Exercisable	Date		Number		
				C + V	(A) (D)				of		
				Code V	(A) (D)				Shares		

Relationships

## **Reporting Owners**

Reporting Owner Name / Address						
	Director	10% Owner	Officer	Other		

Moyer James C

6409 GUADALUPE MINES ROAD X Chief IC Design Engineer

SAN JOSE, CA 95120

## **Signatures**

By: Rick Neely For: James 05/12/2010 Moyer

\*\*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) Shares sold to pay tax obligations resulting from the vesting of restricted stock.

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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