## FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL							
OMB Number: 3235-028							
Estimated average burden							
hours per response:	0.5						

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*     Sciammas Maurice				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  Officer (give title Other (specify				Owner	
(Last) 6409 GU	(Fir	st) (MINES ROAD	fiddle)	3. Date of Earliest Transaction (Month/Day/Year) 04/25/2011							X	belo	w) (	below s and Market	w)	
(Street) SAN JOS (City)			5120 ip)	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Indi Line)	,					
		Tabl	e I - Non-Deriv	ative S	ecu	rities	Acquir	ed,	Disposed o	of, or	Benefi	cially	Own	ed		
Date		2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Year)		Date,	Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common	Stock		04/25/2011				S <sup>(1)</sup>		885	D	\$15.4	021(2)	9.	2,394	Ι	by Family Trust <sup>(3)</sup>
Common	Stock		04/25/2011				S <sup>(1)</sup>		350	D	\$15.4	021(2)	2	3,271	I	byC Sciammas 04 TRST <sup>(4)</sup>
Common Stock		04/25/2011				S <sup>(1)</sup>		350	D	\$15.4	021(2)	2	3,271	I	byM Sciammas 04 Trst <sup>(5)</sup>	
Common	Stock													8,901	D	
		Та	ble II - Derivat (e.g., pu						sposed of, s, convertil				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year) if	3A. Deemed Execution Date, if any (Month/Day/Year)			5. Num of Derivat Securit Acquire (A) or Dispos of (D) (Instr. 3 and 5)	ive ies ed ed	iratio	xercisable and n Date ay/Year)	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Dei Sed (Ins	Price rivative surity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A) (I	Dat D) Exe	e ercisat	Expiration Date	Title	Amou or Numb of Share	er				

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. 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 \$15.36 to \$15.43. 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.
- 3. Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- 4. Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- 5. Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees

By: Saria Tseng For: Maurice Sciammas

04/25/2011

\*\* Signature of Reporting Person

n Date

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

- $^{\star}$  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).

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 ir	nformation contained in this form	n are not required to respond	unless the form displays a curre	ntly valid OMB Number.