Sciammas Maurice Form 4 May 02, 2012

FORM 4

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

OMB

3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

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

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Sciammas Maurice			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			MONOLITHIC POWER SYSTEMS INC [MPWR]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	Director 10% Owner X Officer (give title Other (specify			
6409 GUADALUPE MINES ROAD			(Month/Day/Year) 05/01/2012	below) below) Sr. V.P.of Sales and Marketing			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
SAN JOSE, CA 95120				_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State)	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owner.								
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. Securionor Dispo (Instr. 3,	sed of 4 and (A) or		5. Amount of Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	05/02/2012		$S_{\underline{(1)}}$	1,145	D	\$ 21.002	132,066	D		
Common Stock	05/01/2012		S(2)	6,000	D	\$ 22.0295 (3)	74,004	I	by Family Trust	
Common Stock	05/01/2012		S(2)	2,000	D	\$ 22.015 (4)	16,371	I	byC Sciammas 04 TRST	
Common Stock	05/01/2012		S(2)	2,000	D	\$ 22.0165 (5)	16,371	I	byM Sciammas 04 Trst	

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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 required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans

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. Titl	e and	8. Price of	
	Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	tionNumber	Expiration D	ate	Amou	nt of	Derivative	
	Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	
	(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)) Derivative	e		Securi	ties	(Instr. 5)	
		Derivative				Securities			(Instr.	3 and 4)		
		Security				Acquired						
						(A) or						
						Disposed						
						of (D)						
						(Instr. 3,						
						4, and 5)						
										Amount		
							Date	Expiration		or		
						Exercisable	Date		Number			
										of		
					Code V	I(A)(D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Sciammas Maurice 6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120

Sr. V.P.of Sales and Marketing

Signatures

By: Meera Rao For: Maurice Sciammas

05/02/2012

**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) Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- (2) 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 (3) range from \$22.00 to \$22.15. 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 (4) range from \$22.00 to \$22.15. 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.

Reporting Owners 2

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The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line (5) range from \$22.00 to \$22.08. 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.

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.