Ueunten Paul Form 4 August 03, 2012

FORM 4

Check this box

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to **SECURITIES** Section 16. Form 4 or Form 5

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 may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

obligations

1. Name and Address of Reporting Person * Ueunten Paul			2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last) 79 GREAT O	(First) AKS BLVD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/02/2012	Director 10% Owner Officer (give title Other (specify below) Sr. V.P. Design Engineering			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			

SAN

			X Form filed by One Reporting Person				
N JOSE,	CA 95119		Form filed by More than One Reporting Person				
(City)	(State)	(Zin)					

,							Person		
(City)	(State) (Z	Zip) Table	I - Non-De	erivative S	Securi	ties Acc	quired, Disposed o	of, or Beneficial	lly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities onAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price		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	08/02/2012		S(1)	947	D	\$ 19	130,986	D	
Common Stock							153,556	I	Ueunten Trust I
Common Stock							113,900	I	Ueunten Trust II
Common Stock							26,000	I	Ueunten Trust III
Common Stock							26,000	I	Ueunten Trust IV

OMB APPROVAL

Estimated average

burden hours per

3235-0287

January 31,

2005

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

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SEC 1474 (9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

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.	4	5.	6. Date Exerc	cisable and	7. Tit	le and	8. Price of	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transac	ction	Number	Expiration Da	ate	Amou	ınt of	Derivative	
Security	or Exercise		any	Code	(of	(Month/Day/	Year)	Under	rlying	Security	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8	8) 1	Derivative	•		Secur	ities	(Instr. 5)	
	Derivative					Securities			(Instr.	3 and 4)		
	Security				1	Acquired						
	_				((A) or						
]	Disposed						
					(of (D)						
					((Instr. 3,						
					4	4, and 5)						
										Amount		
							Date	Expiration	m: d	or		
							Exercisable Date	Title Number				
				G 1		(A) (B)				of		
				Code	V ((A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Ueunten Paul

79 GREAT OAKS BLVD Sr. V.P. Design Engineering

SAN JOSE, CA 95119

Signatures

By: Saria Tseng For: Paul Ueunten 08/03/2012

**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.

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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