Ueunten Paul Form 4 February 10, 2010

FORM 4

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

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

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0.5 response...

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

SECURITIES Form 5 obligations may continue.

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 See Instruction

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

1(b).

(Print or Type Responses)

	(Time of Type R	esponses)									
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) 6409 GUAD	(Last) (First) (Middle) 409 GUADALUPE MINES ROAD			3. Date of Earliest Transaction (Month/Day/Year) 02/09/2010				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 _ Form filed by More than One Reporting			
	SAN JOSE,	CA 95120							Person	viore than One Re	eporung
	(City)	(State)	(Zip)	Table	I - Non-D	erivative S	Securit	ties Acq	quired, Disposed o	f, or Beneficial	ly Owned
	1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution	med on Date, if Day/Year)	3. Transaction Code (Instr. 8)	4. Security on (A) or Di (D) (Instr. 3,	sposed	l 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							Φ			

` '		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)		Owned Following	Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		
Common Stock	02/09/2010		S	532 (1)	D	\$ 20.2	57,797	D	
Common Stock							153,556	I	Ueunten Trust I
Common Stock							123,900	I	Ueunten Trust II
Common Stock							30,550	I	Ueunten Trust III
Common Stock							30,550	I	Ueunten Trust IV

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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.	5.	6. Date Exerci	sable and	7. Title	and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	iorNumber	Expiration Da	te	Amoun	nt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/Y	(ear)	Underl	ying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)
	Derivative				Securities			(Instr. 3	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
						Date	Expiration		or	
						Exercisable Da	Date		Number	
									of	
				Code V	$^{\prime}$ (A) (D)				Shares	

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Ueunten Paul

6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120

Sr. V.P. Design Engineering

Signatures

By: Rick Neely For: Paul Ueunten

02/10/2010

**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 performance units (restricted stock units) originally granted on February 8, 2008.

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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