Orchid Island Capital, Inc. Form SC 13G February 14, 2017

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

		Orchid Island Capital,	Inc.
	(Name	of Issuer)	
	common	stock, \$.01 par value	
	(Title of Clas	ss of Securities)	
		68571X103	
	(CUSIP	Number) November 29, 2016	
	(Date of Event Which Re	equires Filing of this St	catement)
	he appropriate box to designate e is filed:	the rule pursuant to whi	ich this
[X	Rule 13d-1(b)		
[_] Rule 13d-1(c)		
[_] Rule 13d-1(d)		
initia and fo	mainder of this cover page shall I filing on this form with respo r any subsequent amendment conta sclosures provided in a prior co	ect to the subject class aining information which	of securities,
deemed Act of of the	formation required in the remaind to be "filed" for the purpose of 1934 ("Act") or otherwise subject Act but shall be subject to all Notes).	f Section 18 of the Secur ct to the liabilities of	rities Exchange that section
CUSIP N	O. 68571X103	13G	 Page 2 of 8 Pages
` '	AMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF A	30VE PERSONS (entities or	nly).
R	enaissance Technologies LLC	26-0385758	
	ECK THE APPROPRIATE BOX IF A MEN	MBER OF A GROUP (SEE INST	TRUCTIONS):

	(b) [_]			
(3)	SEC USE ONLY			
(4)	CITIZENSHIP OR PLACE OF O	RGANIZATION		
	Delaware 			
E E			(5)	SOLE VOTING POWER
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		910,879	
		(6)	SHARED VOTING POWER	
			0	
			(7)	SOLE DISPOSITIVE POWER
				1,267,944
			(8)	SHARED DISPOSITIVE POWER
				899,856
(9)	AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY EAC	H RE	PORTING PERSON
		2,167,800		
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	(SEE INSTRUCTIONS)			[_]
(11)	PERCENT OF CLASS REPRES	ENTED BY AMOUNT IN	ROW	(9)
		6.58 %		
(12)	TYPE OF REPORTING PERSON	(SEE INSTRUCTIONS)	
		Page 2 of 8 page	es	
		======================================		
	 IP NO. 68571X103	13G		Page 3 of 8 Page
(1)	NAMES OF REPORTING PERSO	NS.		
	RENAISSANCE TECHNOLOGIES	HOLDINGS CORPORAT	ION	13-3127734
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_]			
(3)	SEC USE ONLY			

(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED	(5) SOLE VOTING POWER 910,879
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER 0
	(7) SOLE DISPOSITIVE POWER
	1,267,944 (8) SHARED DISPOSITIVE POWER
	899 , 856
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED	BY EACH REPORTING PERSON
2,167,800	
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN (SEE INSTRUCTIONS)	N ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED BY AMO	OUNT IN ROW (9)
6.58 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRU	UCTIONS)
Page 3 o	f 8 pages
CUSIP NO. 68571X103	 13G
Item 1.	
(a) Name of Issuer	
Orchid Island Capital, Inc.	
(b) Address of Issuer's Principal Ex	ecutive Offices.
3305 Flamingo Drive, Vero Beach	, Florida 32963
Item 2.	
(a) Name of Person Filing:	
	d by Renaissance Technologies LLC
	ogies Holdings Corporation ("RTHC").

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

common stock, \$.01 par value

(e) CUSIP Number.

68571X103

Page 4 of 8 pages

- Item 3. If this statement is filed pursuant to Rule 13d-1 (b) or 13-d-2 (b) or (c), check whether the person filing is a:
- (a) [_] Broker or dealer registered under section 15 of the Act.
- (b) [_] Bank as defined in section 3(a)(6) of the Act.
- (c) [_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b) (1) (ii) (E).
- (f) [_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1 (b) (1) (ii) (F).
- (g) [_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) $[_]$ A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) [_] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940.
- (j) $[_]$ Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).
- Item 4. Ownership.
 - (a) Amount beneficially owned.

RTC: 2,167,800 shares

RTHC: 2,167,800 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 6.58 % RTHC: 6.58 %

- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:

RTC: 910,879 RTHC: 910,879

(ii) Shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of:

RTC: 1,267,944 RTHC: 1,267,944

(iv) Shared power to dispose or to direct the disposition of:

RTC: 899,856 RTHC: 899,856

Page 5 of 8 pages

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [_]

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable

Item 8. Identification and Classification of Members of the Group.

Not applicable

Item 9. Notice of Dissolution of a Group.

Not applicable

Page 6 of 8 pages

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2017

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See $18\ U.S.C.\ 1001$).

Page 7 of 8 Pages

EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of common stock, \$.01 par value of Orchid Island Capital, Inc.

Date: February 14, 2017

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

Page 8 of 8 Pages