EXHIBIT 5

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1
              UNITED STATES DISTRICT COURT
 2
             NORTHERN DISTRICT OF CALIFORNIA
 3
                 SAN FRANCISCO DIVISION
 4
 5
 6
     ORACLE AMERICA, INC., )
 7
          Plaintiff,
 8
                              ) No. CV 10-03561 WHA
     vs.
 9
     GOOGLE, INC.,
                              ) VOLUME I
          Defendant.
10
11
12
13
       HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
14
15
          Videotaped Deposition of NOEL POORE,
16
          taken at 42 Chauncy Street, Boston,
17
          Massachusetts, commencing at 2:05 p.m.,
18
          Wednesday, September 7, 2011, before
          Jill Shepherd, RPR, MA-CSR No. 148608,
19
20
          NH-CSR No. 128, CA-CSR No. 13275, CLR,
21
          and Notary Public.
22
23
24
     PAGES 1 - 95
25
                                                      Page 1
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- 1 Q. When did you begin working on the underlying
- 2 data in benchmarking for this report?
- 3 MS. AGRAWAL: Objection. Form.
- 4 A. Earlier this year after I received the
- 5 request to assist the legal team.
- 6 Q. Do you recall when you started working on 7 this?
- 8 MS. AGRAWAL: Same objection.
- 9 A. Well, I said earlier that, to the best of my
- 10 recollection, I received the request in the
- 11 March or maybe April time frame, so that
- would have been when I began the technical
- work that ended up with this report.
- 14 Q. Did you draft the report?
- 15 MS. AGRAWAL: Objection. Form.
- 16 A. Yes, I did.
- 17 Q. Did you have any help?
- 18 MS. AGRAWAL: Objection. Form.
- 19 A. Yes. The exact format of the report -- you
- 20 know, I did receive some --
- 21 MS. AGRAWAL: Sorry. I caution the
- witness not to reveal any attorney-client
- 23 privileged communications.
- To the extent that you can answer the
- 25 question without doing so, you can.

- 1 discussed my report with Mr. Vandette.
- 2 Q. Did you discuss your report with Erez
- 3 Landau?
- 4 MS. AGRAWAL: Objection. Form.
- 5 A. No.
- 6 Q. Did you discuss your report with Seeon
- 7 Birger?
- 8 MS. AGRAWAL: Objection. Form.
- 9 A. No.
- 10 Q. Anyone else you discussed your report with
- other than Professor Mitchell and
- 12 Mr. Kessler?
- 13 MS. AGRAWAL: Objection. Form.
- 14 A. I don't recall discussing it with anyone
- 15 else, no.
- 16 Q. Did you discuss it with some attorneys; is
- 17 that correct?
- MS. AGRAWAL: And I caution -- I
- instruct the witness -- caution the witness
- 20 not to reveal attorney-client privileged
- 21 communications; but to the extent you can
- answer the question with a yes or no, you
- can answer.
- 24 A. Yes, I have. I have discussed the report
- with attorneys, yes.

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Page 24

- 1 THE WITNESS: Okay.
- 2 A. So I did receive some help with the exact
- 3 format of the report and some of the --
- 4 Q. How long did it take you to draft the
- 5 report?
- 6 MS. AGRAWAL: Objection. Form.
- 7 A. It was written over a period of several
- 8 weeks, as far as I recall. It wasn't
- 9 something that I was working on, you know,
- 10 100 percent of the time.
- 11 Q. Did you speak with Professor Mitchell
- 12 regarding your report?
- 13 MS. AGRAWAL: Objection. Form.
- 14 A. Yes. I have been involved with a number of phone conversations with Professor Mitchell.
- 16 Q. Did you speak with Peter Kessler regarding
- 17 the report?
- 18 MS. AGRAWAL: Objection. Form.
- 19 A. Yes. Mr. Kessler was involved in some of
- 20 those conversations too, yes.
- 21 Q. Did you speak with Mr. Vandette?
- 22 MS. AGRAWAL: Objection. Form.
- 23 A. I don't recall specifically whether
- 24 Mr. Vandette was involved in any of those
- 25 conversations. I have not directly
- Page 23

- 1 Q. Did you discuss the report with any other
- 2 Oracle engineers?
- 3 A. No.
- 4 Q. Did any Oracle engineers assist you in your
- 5 performance benchmarking or any of the work
- 6 that you did to prepare this report?
- 7 MS. AGRAWAL: Objection. Form.
- 8 A. No.
- 9 Q. So you did all the work in this report by
- 10 yourself, correct?
- 11 A. That's correct.
- 12 Q. Do you have any opinions regarding this case
- that are not included in your report?
- MS. AGRAWAL: Objection. Form.
- 15 A. Well, this report is on a very -- you know,
- specifically relating to two of the seven
- 17 patents that are in question. You know, I
- 18 have been specifically asked to write the
- 19 report on those and not to form or express
- any opinions on anything else about this
- 21 case
- 22 Q. So you have no opinions regarding any of the
- 23 other asserted patents or issues in this
- 24 case; is that correct?
 - MS. AGRAWAL: Objection. Form.

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- 1 A. Well, not -- you know, I'm not a patent
- 2 attorney, but it does seem likely to me from
- 3 an engineering opinion that some of the
- 4 other patents at least are indeed infringed.
- 5 Q. You've reviewed the patents?
- 6 MS. AGRAWAL: Objection. Form.
- 7 A. I have not reviewed the patents. I haven't
- 8 sat down and read the patent documents. I
- 9 know --
- 10 Q. Does your report include all of your
- opinions with respect to the two patents
- that you were asked to address?
- 13 A. Yes.
- 14 MS. AGRAWAL: Objection. Form.
- 15 Q. Is Oracle paying you anything in addition to
- 16 your regular compensation for your work in
- 17 this case?
- 18 MS. AGRAWAL: Objection. Form.
- 19 A. No.
- 20 Q. Approximately how many hours have you worked
- 21 on this case?
- MS. AGRAWAL: Objection. Form.
- 23 A. So this is not something that I have been
- 24 counting.
- 25 Q. Yeah. But, generally, do you have any idea

1 A. No.

- 2 Q. Do you have any financial interest in the
- 3 outcome of this case?
- 4 MS. AGRAWAL: Objection. Form.
- 5 A. No.
- 6 Q. What is your annual compensation at Oracle?
- 7 MS. AGRAWAL: Objection. Form.
- 8 A. Approximately \$192,000.
- 9 Q. Do you get a bonus in addition to that
- 10 salary?
- 11 MS. AGRAWAL: Objection. Form.
- 12 A. Yes. There is a bonus at the discretion of
- 13 my manager.
- 14 Q. Do you have Oracle stock or options?
- 15 A. I do have some options that were issued when
- 16 Sun purchased Savaje.
- 17 Q. How many?
- 18 A. I believe that there are a few, you know, a
- 19 few hundred options outstanding.
- 20 Q. You have no Oracle stock currently?
- 21 A. I do not own any Oracle stock currently,
- that's correct.
- 23 Q. And you have a few hundred options?
- 24 A. I believe that's the right number, yes.
- 25 Q. Have you been informed that you would

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1 of how many days it would have added up to?

of time I have spent on this since earlier

- 2 MS. AGRAWAL: Objection. Form.
- 3 A. I think the total must -- the total amount
- 5 in the year must be, you know, at least
- 6 four -- you know, four to six weeks,
- 7 something like that, if you were to take all
- 8 the time and turn it into a full-time
- 9 equivalent.
- 10 Q. Is your involvement in this case part of
- 11 your current job responsibilities?
- MS. AGRAWAL: Objection. Form.
- 13 A. Yes.
- 14 Q. Your management knows that you are working
- on this case, correct?
- MS. AGRAWAL: Objection. Form.
- 17 A. Yes.
- 18 Q. Have you in the past performed any work for
- 19 Oracle or Sun in connection with any other
- 20 case?
- 21 MS. AGRAWAL: Objection. Form.
- 22 A. No.
- 23 Q. Are you currently working for Oracle in
- 24 connection with any other case?
- 25 MS. AGRAWAL: Objection. Form. Page 27

- receive anything in return for your work in this case such as a bonus or a promotion?
- 3 A. No.

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- 4 Q. Looking at your report on page 19, is that
- 5 your signature?
- 6 A. Yes.
- 7 Q. And did you sign this document on August 6,
- 8 2011?
- 9 A. Yes.
- 10 Q. Is there anything in this report that you
- believe should be corrected or changed?
- 12 A. There is. In reviewing the materials, I did
- 13 notice one error in one of the attachments.
- 14 The spreadsheet, which contains the results
- of the '702, experiment three, the column
- 16 headers for the number of classes and the
- 17 number of quickened methods are switched.18 Q. Did that affect the results you obtained
- 19 from the data in that spreadsheet?
- 20 A. No.
- 21 Q. So that doesn't change the data reflected in
- 22 this report; is that correct?
- 23 A. That's correct.
- 24 Q. Are you currently working on any
- 25 supplemental report or analysis?

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- 1 MS. AGRAWAL: Objection. Form.
- 2 I caution the witness not to reveal
- 3 any attorney-client privileged
- 4 communications.
- 5 A. No. I have not been asked to produce any
- 6 supplemental reports or updates to this
- 7 report or anything.
- 8 Q. Are you conducting any additional analysis
- of Dalvick Virtual Machine or Android?
- 10 MS. AGRAWAL: Same objection. Same
- 11 caution.
- 12 A. I'm not conducting any new technical work in
- this area at the moment, no.
- 14 Q. In preparing your report, you looked at
- 15 Android source code; is that correct?
- 16 A. That's correct.
- 17 Q. Was that Android source code public, what
- 18 you received from the publicly available Web
- 19 site?
- 20 A. Yes. As I outlined, for example, in
- 21 paragraph 13 of my report, then the source
- 22 code that was used for these experiments was
- 23 pulled from the publicly-available Android
- 24 source code repository.
- 25 Q. Did you review any source code relating to Page 30

- 1 those?
- 2 MS. AGRAWAL: Objection. Form.
- 3 A. There was one page that I looked at that
- 4 summarized the Dalvick instruction set
- 5 and -- but I don't recall exactly where that
- 6 page was.
- 7 Q. Did you watch any videos relating to Android
- 8 on the Internet?
- 9 A. Not specifically in relation to this work.
- 10 I mean, I had watched prior to this work
- 11 than I had watched, you know, videos
- 12 relating to Android, for example, Google IO
- 13 presentations.
- 14 Q. Prior to this work, did you look at any
- 15 other technical documents relating to
- 16 Android?
- 17 A. Yes. There is Java doc for the Android, you
- 18 know, the Android APIs on the Internet, and
- 19 I certainly consulted that during prior work
- and while I was writing applications.
- 21 Q. Did you look at any documents that were
- 22 produced by Google to Oracle in this case,
- and those documents would likely have
- 24 numbers on the bottom of the page?
- 25 A. No.

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- 1 any particular Android-based device?
- 2 MS. AGRAWAL: Objection. Form.
- 3 A. No.
- 4 Q. Did you look at any technical documents
- 5 publicly available in an Android Web site?
- 6 A. Yes. So, for example, in Appendix C, which
- 7 is on page 32 of my report, then there is
- 8 the URL of a document, public document,
- 9 there on the Android Web site, which 10 specifies the format of the Dalvick
- 11 executable file.
- 12 Q. You looked at that document?
- 13 A. Yes.
- 14 Q. Did you look at any other technical
- 15 documents?
- 16 A. I can't think of any other specific
- 17 technical documents that I consulted, no.
- 18 Q. Did you look at any Web pages on the Android
- 19 Web site?
- 20 A. Well, I did consult the Web pages on how to
- 21 download the Android source, how to set up a
- build environment, how to install the repo
- 23 tool that is used to set up the source code
- 24 repository and so on.
- 25 Q. Did you look at any Web pages besides for Page 31

- 1 Q. The source code that you mentioned before2 relating to Android, did you personally
- 3 download that?
- 4 A. Yes.
- 5 (Exhibit 475 marked.)
- 6 Q. Exhibit 475 is U.S. patent number 5,966,702.
- 7 I will refer to it as the "'702 patent," and
- 8 this is one of the patents asserted in this
- 9 case.
- Have you seen this patent before?
- 11 A. Yes.
- 12 Q. Have you reviewed the patent claims?
- MS. AGRAWAL: Objection. Form.
- 14 A. I have looked through the patent, but at no
- 15 time have I been asked to express an opinion
- on exactly which claims are infringed or
- 17 anything like that.
- 18 Q. Do you know which claims are asserted in
- 19 this case?
- 20 MS. AGRAWAL: Objection. Form.
- 21 A. No.
- 22 Q. Was any of the work that you did and
- 23 described in your report particular to any
- 24 individual claim in the '702 patent?
 - MS. AGRAWAL: Objection. Form.

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3

- 1 A. So the guidance that I was given in
- conversation with Dr. Mitchell was to focus
- 3 my work on the shared constant table that is
- used in the Dalvick executable file format.
- 5 Q. So Professor Mitchell told you what to look
- at with respect to the accused
- 7 functionality; is that correct?
- 8 A. Yes.
- 9 Q. But you didn't actually review the asserted
- 10 claims in this case?
- MS. AGRAWAL: Objection. Form. 11
- 12 Q. Is that correct?
- 13 A. That's correct, yes.
- 14 O. Are you familiar with the concept of a
- 15 multiclass file?
- 16 MS. AGRAWAL: Objection. Form.
- 17 A. I am familiar with the concept of packing
- multiple classes into a single file
- 19 structure, yes.
- 20 Q. Are you familiar with the concept of a
- 21 multiclass file as it is described in the
- 22 '702 patent?
- 23 MS. AGRAWAL: Objection. Form.
- 24 A. I guess as an engineer. I'm reluctant to
- 25 answer that question with a definite yes,

- single file in order to benefit from the
- 2 fact that they are within a single file.
- 3 O. Have multiclass files been implemented in
- Sun or Oracle products?
- 5 MS. AGRAWAL: Objection. Form,
 - outside the scope.
- 7 A. I don't actually know whether a multiclass
- 8 file in this sense that we've just
- 9 discussed, or that I just discussed, has
- 10 actually been implemented in any Sun or
 - Oracle product that has shipped.
- 12 Q. You don't know if the multiclass file
- 13 described in this patent has ever shipped in 14
 - an Oracle product?
- 15 MS. AGRAWAL: Objection. Form.
- 16 A. Well, there is a form of multiclass file
- that is implemented in the CVM product, so 17
- 18 CVM has the ability to romize,
- 19 R-O-M-I-Z-E -- to romize a defined
- 20 collection of classes. And the -- so those
- 21 classes are then -- the loaded form of those
- 22 classes is then stored in a single file. So
- 23 I guess you could argue that that is a
- 24 multiclass file.
- 25 Q. Do you mean that the romizer can create a

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- 1 because I'm not necessarily familiar enough
- 2 with the detail of this patent to -- you
- 3 know, it seems like an ambiguous question.
- 4 O. Do you understand the -- let me rephrase.
- 5 Do you understand that a jar file will
- have many different class files in it? 6
- 7 MS. AGRAWAL: Objection. Form.
- 8 A. I understand that a jar file does contain
- many different class files, but that the 10 structure of the jar file makes no attempt
- 11 to combine those different class files in
- 12 any way. A jar file is specifically -- I
- 13 mean, it is a structure that is specifically
- 14 designed to package multiple files of any
- 15 kind, not specifically class files, into a
- 16 single container file.
- 17 Q. So a multiclass file, as you understand it,
- 18 combines classes in some form or another?
- 19 MS. AGRAWAL: Objection. Form.
- 20 A. I would understand the term "multiclass

independent classes into a single file, but

- 21 file" to mean that you are doing more than
- 22 simply, you know, bundling multiple 23
- 24 that you are somehow operating on the
- classes which are contained within the 25

- multiclass file?
- 2 MS. AGRAWAL: Objection. Form,
 - outside the scope.
- 4 Sorry, Mr. Franz. I don't want to get
- 5 in this fight with you again. I'm going to
- 6 ask you to stick to the report. The fact
- 7 that he's not here as a fact witness or to
- 8 get into topics that are not within his
- 9 report.
- 10 Q. Can you answer the question?
- 11 MS. AGRAWAL: Same objection.
- 12 A. So I'm not part of the CVM team, and,
- therefore, I wouldn't qualify myself as an 13
- 14 expert in CVM. But my understanding is
- 15 that, yes, it would be reasonable to
- 16 understand the romized class file as a
- 17 multiclass file.
- 18 Q. Do you know of any multiclass files in JDK?
 - MS. AGRAWAL: Objection. Form,
- 20 outside the scope. Same caution.
- 21 A. No, I do not.
- 22 Q. Is it your understanding that multiclass
- 23 files have a shared constant pool?
- 24 MS. AGRAWAL: Objection. Form,

outside the scope.

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1 Q. Have you tried comparing the dex file to its 1 the Java byte codes that initialize an array 2 2 dexdump output? and saving the initialized array value in 3 MS. AGRAWAL: Objection. Form. 3 order -- and using that instead of executing 4 4 A. No. I don't believe I have done anything the byte codes that perform the 5 5 that would fall under that heading, no. initialization. 6 MR. FRANCIS: Okay. Why don't we 6 Q. Do you know if this technique was 7 take a five-minute break. And we'll try to 7 implemented in any Oracle products? 8 MS. AGRAWAL: Objection. Form, wrap it up. 8 9 THE VIDEOGRAPHER: The time is 9 outside the scope. 10 10 A. I don't know that, no. 4:17. We are now off the record. 11 Q. You don't know if any Oracle Java products 11 (Short recess.) 12 THE VIDEOGRAPHER: The time is 12 have this static array initialization --13 4:28. We are now back on the record. 13 MS. AGRAWAL: Same objection. 14 (Exhibit 476 marked.) 14 O. -- procedure? 15 Q. I bet you figured this was coming. 15 MS. AGRAWAL: Same objections. 16 Exhibit 476 is U.S. patent number 16 A. I don't. I haven't been asked, you know --17 6,061,520. I will refer to it as the '520 I was never asked to answer that question. 17 18 patent, and this is asserted by Oracle in 18 Q. Page 13, paragraph 62, you state "To study 19 the case. 19 the effect on dex file size for different 20 20 primitive data types, I created a number of Have you seen this patent before? 21 21 A. Yes, I have seen it. simple Java programs, all of which are 22 Q. Have you reviewed it? 22 similar to the following," and then you 23 A. No. As with the other -- as with the 23 provide some code: is that correct? 24 '702 patent, I have seen it, I have scanned 24 A. Yes. 25 through it, but I haven't seen a detailed 25 Q. Is this what a typical Android application Page 74 1 review of the -- of all of the claims and so 1 looks like? 2 2 MS. AGRAWAL: Objection. Form. on. 3 Q. Do you know which claims are asserted in 3 A. This is code that is specifically structured to enable -- to enable the measurement of this case from this patent? 5 5 A. I do not. the effect on the size of the dex file of 6 6 Q. Have you reviewed Oracle's infringement different data types, array sizes, and contentions relating to this patent? 7 whether or not the array initialization is 8 A. Yes. I was provided with the -- with that 8 being optimized. document for the '520 patent, and I scanned 9 Q. How often are static arrays used in an 10 through it. So the process for this patent 10 Android application? 11 was basically the same as for the '702. I 11 MS. AGRAWAL: Objection. Form. 12 consulted with John -- I forgot his name 12 A. So I have not -- I have not performed a 13 survey of an Android applications in now. 13 14 14 O. Professor Mitchell? general, but, you know, in my experience, 15 15 A. Professor Mitchell, thank you. So I initialized arrays are, you know, relatively 16 consulted with Professor Mitchell, and he 16 common in applications, or in Java source 17 gave me direction. And the outcome of that 17 code in general. I wouldn't say that they 18 conversation was about how to proceed in are a huge, you know, component of the 18 19 terms of testing and technical work for this 19 source code -- of most source code, but they 20 20 patent report. are used quite frequently. 21 Q. Do you believe you have a general sense of 21 Q. So if you had an application, what what this patent is about? 22 percentage of that application would you 22 23 MS. AGRAWAL: Objection. Form. 23 expect to have static arrays? Would that be

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one percent of the application? Ten percent

of the application?

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24

25

24 A. Yeah. I believe, generally speaking, this

patent is about replacing the -- simulating

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CERTIFICATE
3 COMMONWEALTH OF MASSACHUSETTS
4 MIDDLESEX, SS.
      I, Jill Shepherd, Notary Public, in
 6 and for the Commonwealth of Massachusetts,
 7 do hereby certify that:
      NOEL POORE, the witness whose
 8 deposition taken on September 7, 2011 is
  hereinbefore set forth, was satisfactorily
 9 identified by means of driver's license, and
10 was duly sworn by me, and that the foregoing
   transcript is a true and accurate record of
11 the testimony given by such witness and such
12 testimony is a true and accurate
13 transcription of my stenotype notes to the
14 best of my knowledge, skill, and ability.
      I further certify that I am not
15 related to any of the parties in this matter
16 by blood or marriage and that I am in no way
17 interested in the outcome of this matter.
      IN WITNESS WHEREOF, I have hereunto
19 set my hand and notarial seal this 8th day
20 of September, 2011.
22
23
           Jill Shepherd, RPR
24
           Notary Public
25 My Commission expires: April 18, 2014
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 7 NOEL POORE
 8 Examination By Mr. Francis
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11
            DEPOSITION EXHIBITS
12 NUMBER
                                                 PAGE
                      DESCRIPTION
14 Exhibit 472 Defendant's Notice of Rule
15
             30(B)(1) Deposition of
16
             Noel Poore
17 Exhibit 473 Summary and Report of
                                                  9
18
             Noel Poore
19 Exhibit 474 Resume
20 Exhibit 475 U.S. Patent 5,966,702
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21 Exhibit 476 U.S. Patent 6,061,520
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