Exhibit L

	Page 1
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE DISTRICT OF DELAWARE
3	
4	PERSONALIZED USER MODEL, LLP,)
	Plaintiff,)
5)
	v.) 09-525-LPS
6)
	GOOGLE INC.,)
7	Defendant.)
)
8	GOOGLE INC.,)
	Counterclaimant,)
9)
	v.)
10)
	PERSONALIZED USER MODEL, LLP)
11	and YOCHAI KONIG,)
	Counter Defendants.)
12	
13	DEPOSITION OF MUSTAFA KEMAL SONMEZ
14	Taken on behalf of Defendant and Counterclaimant
15	* * *
16	
17	BE IT REMEMBERED THAT the deposition of
18	MUSTAFA KEMAL SONMEZ was taken before Rosemary
19	Tanzer, a Registered Professional Reporter and a
20	Certified Shorthand Reporter for Oregon and
21	Washington, on Monday, August 15, 2011, commencing
22	at the hour of 9:24 a.m., at LNS COURT REPORTING
23	AND CAPTIONING, 1123 S.W. Yamhill Street, Portland,
24	Oregon.
25	Job No. CS344933

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- MR. FRIEDMAN: No, no, no, no,
- 2 no. Over the next few weeks.
- THE WITNESS: Okay.
- 4 Q BY MS. ROBERTS: So then the -- the speaker
- 5 verification project, did it use models or modeling
- 6 techniques?
- 7 A Everything uses models and modeling
- 8 techniques. It's not a distinction about that
- 9 | particular project. But yeah, like anything that
- 10 uses computers, I suppose you need to build a model
- 11 for, so yeah.
- 12 O Now --
- 13 A Just a general statement, I don't know what --
- 14 | it wouldn't really say much about the particular
- 15 | problem or task.
- 16 Q Now, for the particular task of speaker
- 17 verification, would there have been -- I guess,
- 18 | were the models connected to particular speakers or
- 19 to particular sounds?
- 20 A Well, there are different ways of doing that,
- 21 but, yes. Some actually -- some approaches would
- 22 develop a model per speaker. And then -- but there
- 23 are other approaches where you would sort of
- 24 | transform the features into a space and
- 25 | discriminate over there, so that wouldn't

- 1 | necessarily be separate models for speakers. But
- 2 | yeah, there are algorithms that do both.
- 3 Q In terms of the speaker verification project
- 4 at SRI, was there any particular approach you were
- 5 using or were you using --
- 6 A Well, we use many approaches. And our system
- 7 | actually, essentially, was an amalgam of, like,
- 8 maybe six or seven different systems. Like, for
- 9 example, Yochai's front end would be one of those
- 10 systems we would combine to get better accuracy.
- 11 And yes, some of those systems did have a model per
- 12 speaker.
- 13 Q Are you familiar with the term "neuro
- 14 networks"?
- 15 A Yes.
- 16 Q Were neuro networks used in this speaker
- 17 | verification project?
- 18 A They were. Right. Actually, Yochai's
- 19 technique involves estimating a neuro network
- 20 and -- but, also, that's, again, a very general
- 21 | thing because neural networks also kind of have
- 22 come to refer to things as general as machine
- 23 | learning or statistics. That's a very broad area,
- 24 I would say.
- 25 | Q Are you familiar with Bayesian learning

- 1 | 2000, there was a meeting recognition project that
- 2 Mr. Stolcke worked on?
- 3 A Yes.
- 4 Q And when you say after 2000, do you recall
- 5 roughly when that would have been?
- 6 A I can guess. I want to say maybe 2003 or
- 7 2004, although I'm not positive.
- 8 Q In the 1996 to 1999 time frame, did SRI do any
- 9 | work in machine learning outside the context of
- 10 | speech recognition or speaker verification?
- 11 A I quess -- let me see. My work on
- 12 bioinformatics could be an exception, but like
- 13 99 percent was really speech and speaker. Anything
- 14 that the STAR Lab did related to that.
- 15 Q So let me clarify. Not limited to the STAR
- 16 Lab but SRI more broadly, do you know whether it
- 17 | did any work in machine learning?
- 18 A Oh, yeah. Machine learning is a very general
- 19 | framework. So anybody who is working on -- with
- 20 computers at SRI would be doing some sort of
- 21 | machine learning.
- 22 | Q Did SRI do any work in personalization?
- 23 A I don't know what that means, personalization.
- 24 Q Did it do any work in providing personalized
- 25 | computer services to computer users?

- 1 A That's certainly not within STAR Lab. There
- 2 was nothing like that. In terms of general SRI, I
- 3 don't know.
- 4 Q Have you ever heard of the CALO project?
- 5 A Yes, I have.
- 6 0 What is that?
- 7 A CALO was essentially -- let's see. I know the
- 8 person who led that project, Adam Cheyer,
- 9 C-H-E-Y-E-R. So CALO is the project that -- so
- 10 what I know is it's a very large project, first of
- 11 | all. SRI was like an integrator of many, many sort
- 12 of -- they essentially -- CALO must be DARPA, I
- 13 think. DARPA funded the whole field, pretty much,
- 14 like almost every single researcher in the field.
- 15 And they picked SRI as, like, an integrator of
- 16 many, many different technologies. Speech was one
- of those, but there was all kinds of other
- 18 technologies, essentially, like image, documents,
- 19 everything, I think, all under one roof.
- 20 So SRI's task was to integrate all of
- 21 | those technologies into a single system in an age
- 22 of framework which Adam Cheyer had developed, which
- is, essentially, you have these independent agents
- 24 that each working on -- one working on speech, one
- 25 | goes to, who knows, maybe e-mails, and one goes

- 1 Q BY MS. ROBERTS: In your time at SRI, did it do
- 2 | any work in Internet search?
- 3 MR. FRIEDMAN: Objection as to form.
- 4 A I don't know anybody who did Internet search
- 5 at SRI.
- 6 Q BY MS. ROBERTS: At SRI.
- 7 A I mean, I can't be sure about the whole SRI,
- 8 but in the STAR lab certainly that was not a topic
- 9 of research. And among the projects I know that's
- 10 like the AI center, which was a close related
- 11 | artificial intelligent center, I don't think
- 12 anybody was doing research over there either. But
- 13 | I can only be sure about the STAR Lab.
- 14 Q In terms of other labs or divisions, you just
- wouldn't know for sure one way or another?
- 16 A I can't be sure. There is not a research
- 17 project that I know of, but I can't say there was
- 18 none, other than the speech for the STAR Lab.
- 19 Q Okay. Now, you mentioned the artificial
- 20 | intelligence lab; is that correct?
- 21 A Right.
- 22 Q Is that a lab that you worked with in
- 23 connection with your work at the STAR Lab?
- MR. FRIEDMAN: In what time frame?
- 25 Q BY MS. ROBERTS: We'll start with the entire time

- 1 frame.
- 2 A Right. So my involvement with the AI center
- 3 | is, again, relates to my work in computational
- 4 biology. There was a very large DARPA program
- 5 | called Bio-SPICE for which I was the proposal
- 6 manager. And a very central figure in that was
- 7 Peter Karp, who was in the AI center. He's a
- 8 | computational biologist. I can't recall any other
- 9 common projects that I have with the AI lab. AI
- 10 lab is just like another lab, just like speech
- 11 technology and research lab, a separate entity
- within the same information technology division.
- 13 Q So then, for the speaker verification project,
- 14 | you didn't interact with the AI lab?
- 15 A No.
- 16 O Is it AI lab or AI center? Doesn't matter?
- 17 A I don't know. We were a lab, so they must be
- 18 | a lab too. That's my guess.
- 19 O Okay. If I call them the lab, you'll
- 20 understand who I'm referring to?
- 21 A Yes.
- 22 Q Okay. As of 1999, did you have any reason to
- 23 believe that SRI would not do any work in Internet
- 24 search?
- 25 MR. FRIEDMAN: Objection as to form.

- 1 A I know for a fact that speech technology and
- 2 research lab was not doing any re -- because I know
- 3 | all the projects involved, and Internet search is
- 4 really something very different.
- In terms of timing, I'm not even sure.
- 6 | Is that before Google? I don't even know if
- 7 Internet search was even hot then. It's such a
- 8 | long time ago.
- 9 Q BY MS. ROBERTS: Right.
- 10 A But I know that STAR Lab was not doing
- 11 anything related to Internet search.
- 12 Q Okay. And in terms -- beyond the STAR Lab,
- 13 the SRI as a whole, you don't know one way or
- 14 another?
- 15 A I can't be sure. There was not a project that
- 16 | I knew of that did Internet search, but I can't say
- 17 | nobody else was.
- 18 | Q And you're not sure if you were even aware of
- 19 | Internet search at that time; is that correct?
- 20 MR. FRIEDMAN: Object to the form.
- 21 Q BY MS. ROBERTS: Do I understand you correctly?
- 22 A I'm just wondering because it's such a long
- 23 | time ago. For example, I honestly cannot -- cannot
- 24 remember when, actually, I started using Google,
- 25 | for example. I just don't recall. But it can't be

that far away from that time. So I think Internet
search really -- I'm just guessing, it must have
taken -- it must have taken off much after that,
I'm guessing. But I don't remember ever even that
becoming an issue or something that got discussed
at that time. It was -- we focused solely on

speech and language.

2.2

Q And did you -- in the same time period, as of 1999, did you have any reason to believe that SRI would not do any work in providing personalized computer services to users?

MR. FRIEDMAN: Objection as to form.

A Well, I know again, speech technology and research lab was not providing any sort of personalized user experience or -- because that wasn't really what we were -- we didn't really have users, so to speak. It was really more large systems that was meant for processing of large corpora of data. That's C-O-R-P-O-R-A, like a corpus versus corpora. So it's really to develop speech algorithms. So we weren't -- so I can say for sure for STAR Lab, there wasn't any of that. SRI, since it's bigger, even though there is not a project that I was aware of, I can't say there wasn't any.

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- 1 Q BY MS. ROBERTS: Are you familiar with the
- 2 | company called Utopy?
- 3 A Yes.
- 4 Q What is that company?
- 5 A So Utopy is the company that Yochai Koniq
- 6 | founded after he left SRI.
- 7 Q And what kind of work does Utopy do?
- 8 A Well, again, I didn't follow this very
- 9 closely, but it started out as a search company, a
- 10 personalized search company. I know this because
- 11 after Yochai left, like maybe a year or maybe two
- 12 | years after he left, I was -- I was invited to be a
- 13 Beta user on Utopy's first version. I logged in
- 14 and I took a quick look, but I didn't have much
- 15 time, essentially. But then, after some time
- 16 passed, I heard that they were now doing more
- 17 | speech analytics.
- 18 (Reporter requests clarification.)
- 19 THE WITNESS: Analytics.
- 20 Q BY MS. ROBERTS: Do you recall when you first
- 21 | learned about Utopy?
- 22 A Yes. So that was -- that must be, like, a
- 23 | year or -- it was really when I received this Beta
- 24 user invitation.
- 25 Q And you said that was roughly a year or two

- 1 | after Mr. Konig left SRI?
- 2 A I'm just quessing. I don't know exactly when
- 3 | the time.
- 4 | Q So maybe in the 2000/2001 time frame, but not
- 5 | later than that?
- 6 | A That must be -- that sounds right, although I
- 7 | can't be sure. The thing is, it was -- it was at
- 8 | least a year after he left, I think, because we
- 9 | didn't hear from him. And then -- so I just
- 10 remember the name Utopy, which sounded like an
- 11 interesting name. I don't know.
- 12 Q And so you were invited to be a Beta user of
- 13 | this personalized search product?
- 14 A That's right.
- 15 | Q And you didn't ultimately --
- 16 A Well, I mean, I logged in. And I guess the
- idea was -- it was essentially making a model of
- 18 the type of searches that you do such that -- and
- 19 then use this profile to do further searches.
- 20 That's what I got the idea was. And -- but like I
- 21 | said, at that point, I think -- I don't know, maybe
- 22 I'm a little -- the Internet search was not like a
- 23 | huge part of life as it is now in some ways. So I
- 24 | wasn't doing Internet searches every single day, I
- 25 don't think.

- 1 thing came, essentially, as invitations, meant
- 2 nothing to the lab, because it was something
- 3 | different, completely, from what the lab was
- 4 | working on. So it was actually -- so they had just
- 5 | found something else to do, that kind of thing.
- 6 Q Does the name Personal Web ring a bell for
- 7 you?
- 8 A It doesn't.
- 9 Q The program that you were invited to be a Beta
- 10 user of, do you recall if it had a name?
- 11 A It was called Utopy, I think. Like the
- website was Utopy, but I don't recall the name of
- 13 | the program.
- 14 | Q Do you know whether SRI was ever aware of that
- 15 program?
- 16 A It was never, like, either mentioned in a
- 17 | meeting or -- so I don't know if somebody at SRI --
- 18 when or how they became -- if they became aware.
- 19 But I myself did not become aware until I received
- 20 the invitation. So I don't know if SRI, as a
- 21 whole, when they became aware.
- 22 | Q Now, other than being invited to become a Beta
- user of this program, did you have any other
- 24 | contact with Mr. Konig after he left SRI?
- 25 | A Well, we may have hung out. We may have spent

- 1 | rights to and that Yochai and others are -- I don't
- 2 know this third person at all, Michael Berthold.
- 3 And then really the question involved what Yochai
- 4 was working on before he left SRI and whether there
- is any reasonable way in which somehow these
- 6 patents could be related to the work he was doing
- 7 | while he was at SRI. And again -- and again, I
- 8 | said, essentially, Internet search or anything
- 9 related to that was not really the lab's -- the
- 10 | lab's focus or topic in any way.
- And also we discussed, for example, just
- 12 | the fact that machine learning or computer science
- 13 | could be used in both. In my view essentially, you
- 14 know, I said that doesn't -- that those are such
- 15 | general frameworks and tools that it really does
- 16 | not, in my view, provide a link between what he was
- doing before he left SRI and what he did with
- 18 Utopy, essentially. That was -- that was asked to
- 19 me and I gave an answer.
- 20 Q Was an explanation of what's covered in these
- 21 | patents provided to you?
- 22 A No. We didn't look at the patents. These are
- 23 | the first time I'm seeing them. We did not discuss
- 24 | specific claims or anything like that.
- 25 | Q Did you discuss any specific issues in the

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